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            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1 MSLS	Match ocal Simi	TELEFAX: 61/ FORMATION FOR S SEQUENCE CHARAC LENGTH: 268 TYPE: amino STRANDEDNESS: TOPOLOGY: 11 MOLECULE TYPE:	CLASSIFICATION: CLASSIFICATION: AITORNEY/AGENT INI NAME: Haile, L: REGISTRATION NUM REFERENCE/DOCKET TELECOMMUNICATION TELECHONE: 619, TELECHONE: 619,	COUNTRY: US ZIP: 92037 MPUTER READS MEDIUM TYPE: COMPUTER: I OPERATING SY SOPTWARE: P SOPTWARE: P RRENT APPLIC RRENT APPLIC	CORRESPONDENCE ADDRESSEE: 1 STREET: 422: CITY: La Jo. STATE: CA	"HH:::::::0,0,0,		182 172 172 172 172 173 174 175 175 175 175 175 175 175 175 175 175
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FILLLFFSHLILSAMAHGEKKLAPKGOPGPAATDRNPIGSSSROSSSSAMSSSSAS 	100.(y 100.(rvative	Q ID NO: 12: RRISTICS: mino acids cid not relevant ear protein	1: 424 INFORMATION: Lisa A. IUMBER: 38,347 ET NUMBER: 07 IN INFORMATION: (7)678-5070	DATE DATE	ADDRESS: 13 Tish & Richardson Executive Squar	cion US/08439725A; is, Jeremy nood, Philip M. wood, Philip M. yernifer P. v: FIBROBROBLAST v: FISCOR-1 (FHF		267 2 269 2 219 2 219 2 219 2 219 2 219 2 219 2 266 2 266 2 266 2 266 6 2 266 6 2 266 6 2 266 6 2 266 7 2 2 2 2
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                                                                                                                                                                                                                                                                                 ; LENGTH: 268 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
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GENERAL INFORMATION:
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Best Local Similarity
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TELEFAX: (201) 994-1744
INFORMATION FOR SEQ ID NO: 17
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APPLICANT: ROSEN, CRAIG A.
TITLE OP INVENTION: FIBROBLAST GROWTH FACTOR-11
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: US/08/464,590A
FILING DATE: 05-UUN-1995
CLASSIFICATION: 536
CCLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J. G.
REGISTRATION NUMBER: 30,073
REFERENCE/DOCKET NUMBER: 32
                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
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STATE: NJ
COUNTRY: US
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RESULT 3
US-08-207-412B-12
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GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/207,412B
FILING DATE: 08-MAR-1994
CLASSIFICATION: 435
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: FETTATO, Gregory D
REGISTRATION NUMBER: 36,114
REFERENCE/DOCKET NUMBER: 3258
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201.994-1700
                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: single TOPOLOGY: linear MOLECULE TYPE: protein
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                      / Match 100.0%; Score 268; DB 1; 1
Local Similarity 100.0%; Pred. No. 6.6e-244;
nes 268; Conservative 0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi,
ADDRESSEE: Stewart & Olstein
STREET: 6 Becker Farm Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
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                    181 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSBQPELSFTVTVPEKKNPP
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181
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                                                                    LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
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241 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268

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CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/439,725

FILING DATE: 12-MAY-1995

ATTORNEY/AGENT INFORMATION:

NAME: Halle, Lisa A.

REGISTRATION NUMBER: 38,347

REGISTRATION NUMBER: 07265/

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:
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Patent No. 5
                                                                                                                                                                                                                                                                                                                                               Matches 268; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 617/678-5099
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/867,471
FILING DATE: 02-JUN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Philip M.
APPLICANT: Smallwood, Philip M.
APPLICANT: Macke, Jennifer P.
TITLE OF INVENTION: FIBROBROBLAST GROWTH FACTOR HOMOLOGOUS
TITLE OF INVENTION: FACTOR-1 (FHF-1) AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
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CORRESPONDENCE ADDRESS:
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STRANDEDNESS: not relevant
TOPOLOGY: linear
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SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
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4225 Executive Square, Suite
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US-08-438-439C-8
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/438,
FILING DATE: May 12, 1995
CLASSIFICATION: 435
ATTORNEY AGENT INFORMATION:
NAME: Haile, Liss A.
REGISTRATION NUMBER: 38,347
REGISTRATION NUMBER: 07267
REFERENCE/DOCKET NUMBER: 07267
TELEPHONE: 619/678-5099
INFORMATION: 619/678-5099
INFORMATION FOR SEQ ID NO: 8:
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                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local Similarity
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APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Phillip M.
APPLICANT: Macke, Jennifer P.
APPLICANT: Macke, Jennifer P.
TITLE OF INVENTION: FIBROBROBLAST GROWTH FACTOR
TITLE OF INVENTION: FACTOR-2 AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSES: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: not
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 268 amino acids
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241
                      241 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
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                                                                                                                                                                             121 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
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                                                                         TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
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RESULT 6 US-08-951-822-33

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RESULT 7
US-08-718-904-14
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APPLICANT: Conklin, Darrell C.
APPLICANT: Raymond, Fenella
APPLICANT: Bukowski, Thomas R.
APPLICANT: Holderman, Susan D.
APPLICANT: Hansen, Birgit
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20
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Patent No.
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CURRENT FILING DATE: 1997-10-16
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 33
SEQ ID NO 34
TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                        APPLICANT: Baird, J. Andrew
APPLICANT: Chandler, Lois Ann
APPLICANT: Sosnowski, Barbara A.
TITLE OF INVENTION: COMPOSITIONS
NUMBER OF SEQUENCES: 128
CORRESPONDENCE ADDRESS:
                                            ZIP: 98104-7092
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentia Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                          STREET: 6300 COCITY: Seattle STATE: Washings COUNTRY: USA ZIP: 98104-709:
APPLICATION NUMBER: US/08/718,904 FILING DATE: 24-SEP-1996 CLASSIFICATION: 424
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No. 5989866
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                                                                                                                                                                                                                                                           6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                              SEED and BERRY LLP
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US-09-093-585-17
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Patent No. 6110893
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         COUNTRY: US
COUNTRY: US
COUNTRY: US
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ver
CURRENT APPLICATION NUMBER: US/09/093,585
FILING DATE:
CLASSIFICATION UNMBER: US/09/093,585
FILING DATE: US/09/093,585
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INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
TYDE: amino acids
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REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
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APPLICANT: ROSEN, CRAIG A.
TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-11
NUMBER OF SEQUENCES: 17
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CITY: ROSELAND
STATE: NJ
ATTORNEY/AGENT INFORMATION:
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Local Similarity 100.0%;
Les 268; Conservative C
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Pred. No. 6.6e-244;
); Mismatches 0; Indels
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FILE REFERENCE: 96-20
CURRENT APPLICATION NUMBER: US/09/368,951
CURRENT FILING DATE: 1999-08-05
EARLIER APPLICATION NUMBER: 08/951,822
EARLIER FILING DATE: 1997-10-16
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 33
ENGTH: 268
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APPLICANT: Conklin, Darrell C.
APPLICANT: Raymond, Fenella
APPLICANT: Bukowski, Thomas R.
APPLICANT: Holderman, Susan D.
APPLICANT: Holderman, Susan D.
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
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REGISTRATSON NUMBER: 32.58
REFERENCE/DOCKET NUMBER: 32.58
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 994-1700
TELEPAX: (201) 994-1744
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
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Best Local Similarity
Matches 268; Conserv
                                                                  Query Match
Best Local Similarity
Matches 268; Conserv
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                                                                                                                                        -09-368-951-33
                                                                                                                                                    TYPE: PRT
ORGANISM: Homo sapiens
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STRANDEDNESS: sin
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MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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                                                                    Conservative
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                                                                100.0%; Score 268; DB 2;
100.0%; Pred. No. 6.6e-244;
tive 0; Mismatches 0;
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Pred. No. 6.6e-244;
; Mismatches 0;
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OTHER INFORMATION: /note= "FGF-5"; SEQUENCE DESCRIPTION: SEQ ID NO: 14: US-09-449-249-14
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US-09-449-249-14
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Patent No. 6503886
GENERAL INFORMATION:
                                                                         Matches 268;
                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                           TELEFAX: (206) 682-60 INFORMATION FOR SEQ ID NO: 14: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/718,904
FILING DATE: 24-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: NO. 6503886tenburg Ph.D., Carol
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 760100.415C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEPHONE: (206) 682-6031
                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
APPLICATION UMBER: US/09/449,249
FILING DATE: 24-No. 6503886-1999
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Chandler, Lois Ann
Sognowski, Barbara A.
TITLE OF INVENTION: COMPOSITIONS CONTAINING NUCLEIC ACIDS AND LIGANDS FOR THERU
NUMBER OF SEQUENCES: 128
                                                                                                                                                                                                                               MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
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                 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
                                                                                                                                                                                                                           STRANDEDNESS: single
TOPOLOGY: unknown
TULE TYPE: peptide
                                                                                                                                                                                                                                                                                       TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center,
                                                                                                                                                                                                                                                                                                       LENGTH: 268 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Application US/09449249
                                                                       100.0%; Score 268; DB 2; iilarity 100.0%; Pred. No. 6.6e-244; Conservative 0; Mismatches 0;
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                                                                                                               DB 2; Length 268;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Version
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APPLICANT: Thomason, Arlen
APPLICANT: Liu, Benxian
ITITLE OF INVENTION: Fibroblast Growth Factor-Like Polypeptides
FILE REFERENCE: 99-371
CURRENT APPLICATION NUMBER: US/09/390,207
CURRENT FILING DATE: 1999-09-07
NUMBER OF SEQ ID NOS: 41
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 20
LENGTH: 268
TYPE: PRT
ORGANISM: Homo sapiens
US-09-390-207-20
; Sequence 33, Application US/09229947
Patent No. 6518236
; GENERAL INFORMATION:
APPLICANT: Deisher, Theresa A.
APPLICANT: Conklin, Darrell C.
APPLICANT: Raymond, Fenella
APPLICANT: Bukowski, Thomas R.
APPLICANT: Holderman, Susan D.
APPLICANT: Hansen, Birgit
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US-09-390-207-20
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/09/572,40

CURRENT FILING DATE: 2000-05-16

PRIOR APPLICATION NUMBER: 60/135,524

PRIOR FILING DATE: 1999-05-21

PRIOR PELICATION NUMBER: 09/514,587

PRIOR APPLICATION NUMBER: 09/93,585

PRIOR APPLICATION NUMBER: 09/093,585

PRIOR PILING DATE: 1998-06-08

PRIOR PILING DATE: 1998-06-08

PRIOR APPLICATION NUMBER: 09/464,590

PRIOR APPLICATION NUMBER: 08/464,590

PRIOR TILING DATE: 1995-06-05

NUMBER OF SEQ ID NOS: 28

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 11
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US-09-572-406B-11
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CURRENT APPLICATION NUMBER: US/09/229,947
CURRENT FILING DATE: 1999-01-13
NUMBER OF SEQ ID NOS: 43
SOFTWARE: FRSTSEQ for Windows Version 3.0
SEQ ID NO 33
LENGTH: 268
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
APPLICANT: Alderson, Ralph et al.
TITLE OF INVENTION: Fibroblast Growth Factor 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 11, Application US/09572406B Patent No. 6605441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 268; Conservative 0
                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                        Matches
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TITLE OF INVENTION: NOVEL FGF HOMOLOGS
                                                                                                                                                                                                                                                TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
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      61 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
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                                               MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
                                                                                                                                   100.0%; Score 268; DB 2; 1 milarity 100.0%; Pred. No. 6.6e-244; Conservative 0; Mismatches 0;
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Pred. No. 6.6e-244;
0; Mismatches 0;
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US-09-240-952-5
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Patent No. 6331523
GENERAL INFORMATION:
APPLICANT: KLjavin, Ivar
APPLICANT: La Fleur, Monique
TITLE OF INVENTION: Method of Preventing the Death of Retinal
TITLE OF INVENTION: Neurons and Treating Ocular Diseases
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 226; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION UNMER: US/09/240,952
FILING DATE: 29-Jan-1999
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 5:
                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 247 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: 650/225-1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 12-Mar-98
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Svoboda, Craig G. REGISTRATION NUMBER: 39, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE: South San Francisco
                                                                                                                                                                                                                                                                            TOPOLOGY: Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
                        163
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                                                                                                                                                         GSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 102
                                                                                                                       GSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
RERFQENSYNTYASAIHRIEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS 222
                                                                            IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF 162
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                                                                                                                                                                                         84.3%; Score 226; DB 2; Lo
100.0%; Pred. No. 1.9e-204;
Live 0; Mismatches 0;
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US-09-240-952-3
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Best Local Similarity 100.0%; Pred. No. 1.9e-204;
Matches 226; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent NO. 6331...
GENERAL INFORMATION:
GENERAL INFORMATION:
Javin, Ivar
APPLICANT: La Fleur, Monique
APPLICANT: La Fleur, Monique
APPLICANT: La Fleur, Monique
APPLICANT: La Fleur, Monique
Monicons and Treating Ocular Diseases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/041,383
FILING DATE: 12-Mar-98
ATTORNEY/AGENT INFORMATION:
NAME: Svoboda, Craig G.
REGISTRATION NUMBER: 39,044
REFERENCE/DOCKET NUMBER: P1088P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: WinPatin (Genentech)
CURRENT APPLICATION DATA;
APPLICATION NUMBER: US/09/240,952
PILING DATE: 29-Jan-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 248 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION: TELEPHONE: 650/225-1489
TELEPAX: 650/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: Linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE:
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203
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                                                                               RERFQENSYNTYASA I HRTEKTGREWYVALNKRGKAKRGCS PRVKPQHI STHFLPRFKQS
                                                                                                         RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS 222
                        EQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG
                                                                                                                                                                   IYPDGKVNGSHEANMLSVLEIFÄVSQGİVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF 142
                                                                                                                                                                                                                                                     GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Amino Acid
EQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG
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Search completed: April 11, 2006, 03:43:02 Job time : 21 secs

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Minimum
Maximum
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Perfect score:
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seq length: 2000000000
Published Applications AA New:*

1: /SIDSS/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*

2: /SIDSS/ptodata/2/pubpaa/USO6_NEW_PUB.pep:*

3: /SIDSS/ptodata/2/pubpaa/USO7_NEW_PUB.pep:*

4: /SIDSS/ptodata/2/pubpaa/PCT_NEW_PUB.pep:*

5: /SIDSS/ptodata/2/pubpaa/USO3_NEW_PUB.pep:*

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7: /SIDSS/ptodata/2/pubpaa/USO3_NEW_PUB.pep:*

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268
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GenCore version 5.1.7
(c) 1993 - 2006 Biocceleration Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	0	v	4	ω	8	۲	Result
89	8	8	8	8	8	80	8	8	9	9	9	10	48	49	52	60	145	151	176	182	195	195	246	268	Score
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396	388	384	333	207	205	202	153	10	446	413	188	10	48	49	52	60	176	266	176	266	268	246	246	268	•
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US-11-096-568A-33507	US-11-096-568A-33508	US-11-096-568A-33509	US-11-096-568A-26084	US-11-238-936-10	US-11-238-936-8	US-10-793-626-1108	US-11-096-568A-5443	US-11-134-703-33	US-10-714-887-214	US-11-096-568A-20771	US-11-087-099-8568	US-11-134-703-32	US-11-134-703-36	US-11-134-703-38	US-11-134-703-37	US-11-134-703-19	US-11-134-703-8	US-11-238-936-9	US-11-134-703-6	US-11-238-936-15	US-11-134-703-18	US-11-134-703-12	US-11-134-703-10	US-11-134-703-4	ID
Sequence 33507, A	Sequence 33508, A	Sequence 33509, A	Sequence 26084, A	10	8, Apj	11	5443		214,	Sequence 20771, A	8568,	32,	36,	38,	37,	19,	Sequence 8, Appli	,	φ,	15,	18,	12,	10,	Sequence 4, Appli	Description

45	44	43	42	41	40	39	38	37	36	35	34	ω	32	31	30	29	28	27	26
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198	193	191	186	186	186	180	176	164	163	141	133	115	112	110	98	54	25	3969	791
7	7	0	7	7	7	7	7	7	7	7	6	7	7	7	6	7	7	9	σ
US-11-096-568A-18593	US-11-238-936-11	US-10-991-285-873	US-11-096-568A-17455	US-11-044-899-22	US-11-044-899-21	US-11-096-568A-12758	US-11-096-568A-7838	US-11-207-847-4	US-11-172-740-2378	US-11-096-568A-13393	US-10-523-362-22	US-11-004-399-2629	US-11-096-568A-7612	US-11-072-512-3422	US-10-510-386-138	US-11-150-054A-34	US-11-058-735-61	US-10-974-127A-59	US-10-821-234-962
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
18593, A	11, Appl	873, App	17455, A	22, Appl	21, Appl	12758, A	7838, Ap	4, Appli	2378, Ap	13393, A	22, Appl	2629, Ap	7612, Ap	3422, Ap	138, App	34, Appl	61, Appl	59, Appl	962, App

ALIGNMENTS

RESULT 1 US-11-134-703-4

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; SEQ ID NO 4
; LENGTH: 268
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-134-703-4
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CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR PILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR PILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR PILING DATE: 2002-03-27
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
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Best Local S
Matches 268
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 60/157,103 PRIOR FILING DATE: 1999-10-02
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Local Similarity 100.0%; Pred. No. 3.2e-247;
hes 268; Conservative 0; Mismatches 0;
                          181 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSBQPELSFTVTVPEKKNPP 240
181
                                                                                                121
                                                                                                                             121 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
                                                                                                                                                                                                 61 SSPAASLGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
                                                                                                                                                                                                                                61 SSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
                                                                                                                                                                                                                                                                                               1 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
                                                                                                LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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RESULT 3
US-11-134-703-12
; Sequence 12, Application US/11134703
; Publication No. US20060009393A1
; GENERAL INFORMATION:
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CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR EILING DATE: 2002-11-19
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: 60/157,103
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Best Local
          APPLICANT: Hanada et al.

TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
FILE REFERENCE: 67015-05
FILE REPERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR FILING DATE: 2002-11-19
PRIOR FILING DATE: 2002-11-19
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PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
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TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
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ORGANISM: Homo sapiens
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APPLICATION NUMBER: US 10/089,485
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100.0%; Pred. No. 2.5e-226;
rative 0; Mismatches 0;
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-134-703-12
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US-11-134-703-18
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US-11-134-703-18
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Best Local Similarity 100.
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SEQ ID NO 18
LENGTH: 268
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                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)
FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 00/256689
PRIOR APPLICATION NUMBER: ECT/US00/26689
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 1999-10-02
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PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR APPLICATION STATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
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                                                                                                                                                                                                                                                                                                                       TYPE: PRT
                                                                                                                                                                            / Match 72.8%; Score 195; DB 7; L4
Local Similarity 100.0%; Pred. No. 8.4e-178;
les 195; Conservative 0; Mismatches 0;
                         103 IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
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103
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                                                                                                                            43 GSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 102
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IYPDGKVNGSHEANMLSVLBIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
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                                                                                       GSSSRQSSSSAMSSSSASSSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 102
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100.0%; Pred. No. 7.8e-178;
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RESULT 6
US-11-134-703-6
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; SEQ ID NO 15
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Human FGF-5
US-11-238-936-15
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US-11-238-936-15
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Publication No. US20060009393A1
GENERAL INFORMATION:
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Best Local :
APPLICANT: Hanada et al.

APPLICANT: HANADA et al.

APPLICANT: HANADA et al.

PILE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)

FILE REPERENCE: 67015-05

CURRENT APPLICATION NUMBER: US/11/134,703

CURRENT FILING DATE: 2005-05-19

PRIOR FILING DATE: 2003-11-19

PRIOR FILING DATE: 2002-11-19

PRIOR APPLICATION NUMBER: US 10/089,485

PRIOR FILING DATE: 2002-03-27

PRIOR APPLICATION NUMBER: PCT/US00/26689

PRIOR APPLICATION NUMBER: PCT/US00/26689

PRIOR FILING DATE: 2000-09-29
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APPLICANT: Whitehouse, Martha J.
APPLICANT: Kavanaugh, Michael W.
TITLE OF INVENTION: Andinistering
FILE OF INVENTION: Administering
FILE REFERENCE: 1296/12169US05
CURRENT APPLICATION NUMBER: US/11/238,936
CURRENT APPLICATION NUMBER: US/05-09-29
PRIOR APPLICATION NUMBER: US/09/417,721
PRIOR PILING DATE: 1999-10-13
PRIOR PILING DATE: 1999-10-13
PRIOR PILING DATE: 1998-10-13
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                   RESULT 8
US-11-134-703-8
; Sequence 8, Application US/11134703
; Publication No. US20060009393A1
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     GENERAL INFORMATION:
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i LENGTH: 266
; TYPE: PRT
; ORGANISM: Human FGF-5
US-11-238-936-9
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APPLICANT: Whitehouse, Martha J.
APPLICANT: Kavanaugh, Michael W.
TITLE OF INVENTION: Angiogenically Effective
TITLE OF INVENTION: Administering
FILE REFERENCE: 1296/12169US05
CURRENT APPLICATION NUMBER: US/11/238,936
CURRENT FILING DATE: 2005-09-29
PRIOR APPLICATION NUMBER: US/09/417,721
PRIOR APPLICATION NUMBER: US/09/417,721
PRIOR FILING DATE: 1999-10-13
PRIOR FILING DATE: 1999-10-13
PRIOR FILING DATE: 1998-10-13
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PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
SOPTWARE: PATENTIN Ver. 3.3
SEQ ID NO 6
                                                                                                                                                                                                                                                                                   Query Match 56.3%; Score 151; DB 7; L. Best Local Similarity 100.0%; Pred. No. 5.8e-136; Matches 151; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 9
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ORGANISM: Homo sapiens
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                             KPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                                        KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV
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APPLICANT: Hanada et al

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                                                                                      ; ORGANISM: Homo sapiens
US-11-134-703-19
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                                                                                                                                          SOFTWARE: PatentIn
SEQ ID NO 19
LENGTH: 60
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          Matches
                            Query Match
Best Local Similarity
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PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
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PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
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CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
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CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
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TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
FILE REFERENCE: 67015-05
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                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                      PRIOR FILING DATE: 1999-10-02
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ORGANISM: Homo sapiens
                                                                                                                            TYPE: PRT
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22.4%; U-
100.0%; Prr
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                            Score 60; Pred. No.
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161 KFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFK 220

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PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR PILING DATE: 2002-11-19
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR PILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR PILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
; OTHER INFORMATION: Variant peptide sequence.
US-11-134-703-38
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SEQ ID NO 37
LENGTH: 52
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                                                                                                                                                                        SEQ ID NO 38
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Publication No. US20060009393A1
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APPLICANT: HANAGA et al.

TITLE OF INVENTION: INMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGP-5)

FILE REFERENCE: 67015-05

CURRENT APPLICATION NUMBER: US/11/134,703

CURRENT FILING DATE: 2005-05-19

PRIOR APPLICATION NUMBER: PCT/US2003/37065

PRIOR FILING DATE: 2003-11-19

PRIOR FILING DATE: 2002-11-19

PRIOR APPLICATION NUMBER: US 60/427,920

PRIOR APPLICATION NUMBER: US 10/089,485

PRIOR PILING DATE: 2002-03-27

PRIOR PILING DATE: 2002-03-27

PRIOR PILING DATE: 2000-09-29

PRIOR FILING DATE: 2000-09-29
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PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)
FILE REFERENCE: 67015-05
                                                                                                                                                                                               SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/157,103 PRIOR FILING DATE: 1999-10-02
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ORGANISM: Artificial Sequence
FEATURE:
                                                     FEATURE:
                                                                                  ORGANISM: Artificial Sequence
                                                                                                                TYPE: PRT
                                                                                                                                          LENGTH: 49
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Variant peptide sequence
US-11-134-703-36
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                                                                                                               PRIOR FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR PPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/157,103
SEQ ID NO 32
LENGTH: 10
TYPE: PRT
                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 36
LENGTH: 48
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PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR EILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
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TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
                                                         SOFTWARE:
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                                                                            NUMBER OF SEQ ID NOS:
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                                                                                                FILING DATE: 1999-10-02
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                                                         PatentIn
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No. US20060009393A1
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100.0%; Pred. No. 1.2e-39;
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Publication No. US20060041961A1
GENERAL INFORMATION:
APPLICANT: Abad, Mark S. et al.
TITLE OF INVENTION: Genes and Uses for Plant Improvement
FILE REFERENCE: 38-21(53450)B EP
CURRENT APPLICATION NUMBER: US/11/087,099
CURRENT FILING DATE: 2005-03-22
                                                                                                                                                                                                                                                                                                                                                             Sequence 20771, Application US/11096568A Publication No. US20060048240A1 GENERAL INFORMATION:

APPLICANT: Alexandrov, Nickolai et al. TITLE OF INVENTION: Sequence-Determined TITLE OF INVENTION: Therby
                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 20771
LENGTH: 413
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SEQ ID NO 8568
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Best Local Similarity
Matches 10; Conserv
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Best Local Similarity 100.0%; Pred. No.
Matches 9; Conservative 0; Mismatcl
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                                                                   Matches
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                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE: 2750-1592PUS2
                                                                                                                                                 NAME/KEY: misc_feature
LOCATION: (1)...(413)
OTHER INFORMATION: Ceres Seq. ID no. 12387083
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ORGANISM: Zea mays subsp. mays
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TYPE: PRT
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                              55 SSSSASSSP 63
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SSSSASSSP
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Search completed: April 11, 2006, 03:46:10 Job time : 9.5 secs

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Result
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GBF4 [imported] -
ATP-dependent Clp
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ALIGNMENTS

R;Zhan, X.; Bates, B.; Hu, X.; Goldfarb, M.
Mol. Cell. Biol. 8, 3487-3495, 1988
A;Title: The human FGF-5 oncogene encodes a novel protein related to fibroblast growth i
A;Reference number: A31194; MUID:89096942; PMID:3211147

N;Alternate names: transforming protein FGF5
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1989 #sequence_revision 31-Dec-1989 #text_change 09-Jul-2004

fibroblast growth factor 5 - human

TVHUP5

C; Accession: A31194

A; Molecule type: mRNA A; Residues: 1-267 < ZHA>

A; Accession: A31194

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fibroblast growth factor 5 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 28-Mar-1991 #sequence revision 28-Mar-1991 #text_change 09-Jul-2004
C;Date: 00: A36207; B37360
R;Haub, 0.; Drucker, B.; Goldfarb, M.
Proc. Natl. Acad. Sci. U.S.A. 87, 8022-8026, 1990
A;Title: Expression of the murine fibroblast growth factor 5 gene in the adult central
                                                                                                                                                  RESULT 2
A36207
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C;Superfamily: fibroblast growth factor
C;Keywords: growth factor; transforming
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; Pred. No. 1.6e-169;
0; Mismatches 0;
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RESULT 4
S68145
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$66144
$150roblast growth factor 5 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Species: Rattus norvegicus (Norway rat)
C;Apate: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C;Accession: $68144
R;Hattori, Y.; Yamasaki, M.; Itoh, N.
Biochim. Biophys. Acta 1306, 31-33, 1996
A;Title: The rat FGF-5 mRNA ratiant generated by alternative splicing encod A;Reference number: $68144; MUID:96201703; PMID:8611621
A;Accession: $68144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Residue: 1-264 <HAU>
A;Residue: 1-264 <HAU>
A;Residue: 1-264 <HAU>
A;Cross-references: UNIPROT:P15656; UNIPARC:UPI0000003F7B; GB:M37821; GB:M37822;
A;Cross-references: UNIPROT:P15656; UNIPARC:UPI0000003F7B; GB:M37821; GB:M37822;
R;Hebert, JM.; Basilico, C.; Goldfarb, M.; Haub, O.; Martin, G.R.

Dev. Biol. 138, 454-463, 1990

A;Title: Isolation of cDNAs encoding four mouse PGF family members and character:
A;Reference number: A37360; MUID:90201563; PMID:2318343
                               R;Hattori, Y.; Yamasaki, M.; Itoh, N.
Biochim. Biophys. Acts 1306, 31-33, 1996
A;Title: The rat FGF-5 mRNA variant generated by alternative A;Reference number: S68144; MUID:96201703; PMID:8611621
A;Accession: S68145
                                                                                                                              fibroblast growth factor 5, truncated splice form - C;Species: Rattus norvegicus (Norway rat) C;Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #C;Accession: S68145
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A;Molecule type: mRNA
A;Residues: 1-266 <HAT>
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A; Residues: 1-264 < HEB>
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Best Local S
Matches 90
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                preliminary; nucleic acid
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mRNA
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Pred. No.
                sequence
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8.8e-80;
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SSSASSSPA 64

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probable membrane protein YLR294c - yeast (Saccharomyces W;Alternate names: hypothetical protein L8003.19-a C;Species: Saccharomyces cerevisiae C;Date: 20-Jul-1996 #Bequence_revision 23-Aug-1996 #text_C;Accession: S69307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT
S69307
                                                                                                                                                                                                                                                                                          hypothetical protein F58D12.1 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #te. C;Accession: T22906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Map position: 12R
C;Superfamily: Saccharomyces probable membrane protein YLR294c
C;Keywords: transmembrane protein
F;77-93/Domain: transmembrane #status predicted <TMM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R; Pauley, A. submitted to the EMBL Data Library, November 1994 A; Description: The sequence of S. cerevisiae cosm. A; Reference number: S50366
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A;Cross-references: UNII
C;Keywords: alternative
                                                                                                                                                                       A;Status: preliminary; translated A;Molecule type: DNA A;Residues: 1-143 <WIL>
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                                                                                                                       A; Experimental source: C; Genetics:
                                                                                                                                                                                                                           A; Reference number: A; Accession: T22906
                                                                                                                                                                                                                                           submitted to the EMBL Data A; Reference number: Z19635
                                                                                                                                                                                                                                                                             R; Percy,
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A; Residues: 1-109 < PAU>
                                                                                                                                       A;Cross-references: UNIPROT:002276;
A;Experimental source: clone F58D12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Cross-references:
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                                                                                                                                                                                                                                                                                                                                                                                   6
                   Local
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                                                                     14/1;
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                                                                     38/2;
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   Conservative
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3.4%; Score 9; DB 100.0%; Pred. No. 0.1
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100.0%; Pred. No. 0.
ive 0; Mismatches
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0; Mismatches
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                                                                                                                                                                                                                                                             October
                                                                                                                                                       UNIPARC: UPI00000753E8; EMBL: Z81092; PIDN: CAB03144.1.
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                 DB 2;
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N;Alternate names: transforming protein hstf1; transforming protein k-FGF; transforming C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 09-Jul-2004
C;Accession: S04741; A37360
R;Brookes, S.; Smith, R.; Thurlow, J.; Dickson, C.; Peters, G.
Nucleic Acids Res. 17, 4037-4045, 1989
Nucleic Acids Res. 17, 4037-4045, 1989
A;Title: The mouse homologue of hst/k-FGF: sequence, genome organization and location reA;Reference number: S04741; MUID:89296455; PMID:2740210
                                                                                                                                                                                                       RESULT 9
TVMSHS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Delius, H.; Hebling, U.; Hofmann, B. submitted to the Protein Sequence Database, A;Reference number: S67261
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A; Introns: 466/3; 569/3; 649/3; 688/1; 740/3; 877/3
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submitted to the EMBL Data Library, July 1997
A;Description: The sequence of A. thaliana TM018A10.
A;Reference number: Z14348
A;Accession: T01566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hypothetical protein A_TM018A10.23 - Arabidopsis thaliana (;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 19-Feb-1999 #sequence_revision 19-Feb-1999 #text_change 09-Jul-2004 C;Accession: T01566
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A: Experimental source: strain S288C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 1-153 < DEL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hypothetical protein YOR382w - yeast (Saccharomyces cerevisiae) N;Alternate names: hypothetical protein O6760
                                                                                                                                                                            fibroblast growth factor 4 - mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Map position: 15R
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gene: SGD:FIT2; MIPS:YOR382w
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                                    95 VGIGFHLQ 102
VGIGFHLO 97
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N; Alternate names: heparin secretory transforming protein 1; Kaposi sarcoma oncogene; to (Species: Homo sapiens (man) (C; Species: Homo sapiens (man) (C; Species: 31-Mar-1989 #sequence revision 31-Mar-1989 #text_change 09-Jul-2004 (C; Accession: A28417; A29876; A29649 (C; Accession: A28417; A29876; A29649 (C; Accession: A28417; A29876; A29649 (C; Accession: Acad. Sci. U.S.A. 84, 7305-7309, 1987 (A; Title: Genomic sequence of hst, a transforming gene encoding a protein homologous to A; Reference number: A28417; MUID:88041096; PMID:2959959
                                                                                                                                                                                                                                                                                   A;ACCEBBIUM.
A;Molecule type: mRNA
A;Residues: 1-206 <BOV>
A;Cross-references: UNIPARC:UPI0000440662;
A;Cross-references: UNIPARC:UPI000040662;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-206 <YOS>
A;Residues: 1-206 <YOS>
A;Cross-references: UNIPROT:P08620; UNIPARC:UPI000040662; DDBJ:J02986; NID:g184430; PI
A;Cross-references: UNIPROT:P08620; UNIPARC:UPI000040662; DDBJ:J02986; NID:g184430; PI
R;Taira, M.; Yoshida, T.; Miyagawa, K.; Sakamoto, H.; Terada, M.; Sugimura, T.
Proc. Natl. Acad. Sci. U.S.A. 84, 2980-2984, 1987
A;Title: cDNA sequence of human transforming gene hst and identification of the coding
A;Reference number: A29876; MUID:87204251; PMID:2953031
A;Accession: A29876
                                                                                                      C; Superfamily: fibroblast growth factor C; Keywords: growth factor; Kaposi sarco
                                                                                                                                                                                                                                                                                                                                                                                                          A;Title: An oncogene isolated by transfection of Kaposi's A;Reference number: A29649; MUID:87301716; PMID:2957062 A;Accession: A29649
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A; Residues: 1-206 < TAL:
A; Residues: 1-206 < TAL:
A; Cross-references: UNIPARC: UPI000040662; GB: J02986; GB: M16338; NID: 9184430; PIDN: AAB59
A; Delli Bovi, P.; Curatola, A.M.; Kern, F.G.; Greco, A.; Ittmann, M.; Basilico, C.
Cell 50, 729-737, 1987
Cell 50, 729-737, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Gene: hst
C;Superfamily: fibroblast growth factor
C;Keywords: growth factor; transforming
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A;Title: Isolation of cDNAs encoding four mouse FGF family
A;Reference number: A37360; MUID:90201563; PMID:2318343
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Dev. Biol. 138, 454-463, 1990
                                                                                                                                                                                                                 A;Cross-references: GDB:120066; OMIM:164980
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A;Residues: 1-166,'S',168-202 <HEB>
A;Cross-references: UNIPARC:UPI000000415D;
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                                                                                                                                                                 A; Introns: 114/1; 148/3
                                                                                                                                                                                           A; Map position: 11q13.3-11q13.3
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                         DB 1;
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la, M.; Sugimura, T.
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A; Map
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A;Molecule type: DNA
A;Residues: 81-99,'G',101-208 <MAR>
A;Residues: 81-99,'G',101-208 <MAR>
                                                                                                                                                                                                                                                                                                                                                                                                       A;Cross-references: UNIPROT:P10767; UNIPARC:UPI00000411BF; EMBL:X57075
A;Note: it is uncertain whether Met-1, Met-11 or Met-34 is the initiator
R;Iida, S.; Yoshida, T.; Naito, K.; Sakamoto, H.; Katoh, O.; Hirohashi, S.;
Oncogene 7, 303-309, 1992
A;Title: Human hst-2 [FGF-6] oncogene: cDNA cloning and characterization.
A;Reference number: S23739; MUID:92195660; PMID:1549352
A;Accession: S23739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Coulier, F.; Batoz, M.; Marics, I.; de Lapeyriere, O.; Oncogene 6, 1437-1444, 1991
A;Title: Putative structure of the FGP6 gene product and A;Reference number: $20102; MUID:91360279; PMID:1886714
A;Accession: $20102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N;Alternate names: fibroblast growth factor-related protein FGF. C;Species: Homo sapiens (man)
C;Date: 18-Feb-1994 #sequence_revision 12-Apr-1996 #text_change C;Accession: S20102; S23739; S04204; S36910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Accession: JC4268
R;Yu, J.C.; DeSeabra, A.J.J.; Wang, L.M.; Fleming, T.P.; Chedid, M.; Miki, T.; Heidaran, Gene 162, 333-334, 1995
A;Title: An unexpected transforming gene in calf-thymus carrier DNA: Bovine hst.
A;Reference number: JC4268; MUID:96032369; PMID:7557455
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JC4268
                                                                                                                                                                                                     A; Title: Characterization of the HST-related FGF.6 gene, A; Reference number: S04204; MUID:89201880; PMID:2649847
                                                                                                                                                                                                                                                          A;Cross-references: UNIPARC: UPI00000411BF; EMBL:X63454
A;NOte: it is uncertain whether Met-1 or Met-11 is the
R;Marics, I.; Adelaide, J.; Raybaud, F.; Mattei, M.G.;
Oncogene 4, 335-340, 1989
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A;Note: The authors translated the codon GGC for residue 114 as C;Comment: This protein is a member of fibroblast growth factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N;Alternate names: transforming protein hst
C;Species: Bos primigenius taurus (cattle)
C;Date: 10-Nov-1995 #sequence_revision 08-Feb-1996 #text_change 17-Mar-2000
C:Date: T-17328 #sequence_revision 08-Feb-1996 #text_change 17-Mar-2000
                          A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         fibroblast growth factor 6 precursor - human N; Alternate names: fibroblast growth factor-related protein FGF.6; transforming
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Introns: 113/3; 145/2
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                                                                                                                                                                                                                                                                                                                                                            ;Molecule type: mRNA
;Residues: 1-208 <IID>
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Best Local
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12p13-12p13
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                          GDB:119908; OMIM:134921
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100.0%; Pred. No.
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                                                                                                  NID:g31354;
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                                                                                                     PIDN:CAB37648.2;
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PID

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fibroblast growth factor 6 - mouse (Species: Mus musculus (house mouse) (;Species: Mus musculus (house mouse) (;Date: 21:Nov-1993 #sequence revision 10-Nov-1995 #text_change 09-Jul-2004 (;Accession: S14192; 149665; 149664 [Ascession: S14192; 149665; 149664 [Ascession: S14192; 149665] [Ascession: S14192; Noncogene 5, 823-831, 1990 [Ascession: S14192] [Ascession: S14192; MUID:90295275; PMID:2193291 [Ascession: S14192] [Asces
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A;Residues: 19-208 <RES>
A;Cross-references: UNIPARC:UPI000016CD51; GB:M92416; NID:g193288; PIDN:AAA62261.1; PID:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: Isolation and sequence of the murine Fgf6 cDNA A;Reference number: I49664; MUID:93120244; PMID:1477139 A;Accession: I49665
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A;Residues: 1-18 <RE2>
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A; Residues: 1-208 < LAP>
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Best Local
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VGIGFHLO 99
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100.0%; Pred. N
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0; Mismatches
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A;Title: Sequence and analysis of chromosome A;Reference number: A84420; MUID:20083487; PN A;Accession: B84653
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A; Molecule type: DNA
A; Residues: 1-225 <STO>
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A;Cross-references: UNIPROT:O82315; UNIPARC:UP10000179899; GB:AE002093; NID:g3643601; PI

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nuclear protein SR-25 - mouse
C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 09-Jul-2004
C;Accession: JC7219
R;Sasahara, K.; Yamaoka, T.; Moritani, M.; Tanaka, M.; Iwahana, H.; Yoshimoto, K.; Miyaq Biochem. Blophys. Res. Commun. 269, 444-450, 2000
A;Title: Molecular cloning and expression analysis of a putative nuclear protein, SR-25.
A;Reference number: JC7219; MUID:20175222; PMID:10708573
A;Accession: JC7219
A;Molecule type: mRNA
A;Residues: 1-229 <SAS>
A;Cross-references: UNIPROT:09JM93; UNIPARC:UPI00000231C4; DDBJ:AB035383; NID:g7619895;
A;Experimental source: MING cell line
C;Comment: This protein is a highly hydrophilic nuclear protein with a serine-arginine r
A splicing factors.
C;Keywords: nucleus; RNA processing
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A;Gene: At2g25820
A;Map position: 2
Search completed: April 11, 2006, 03:38:26 Job time : 13 secs
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3.0%; Score 8; DB 2;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 8; Conservative 0; Mismatches
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Result
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Maximum DB
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Perfect score:
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       Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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seq length: 2000000000
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Match
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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       GenCore version 5.1.7 (c) 1993 - 2006 Biocceleration Ltd
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US-09-750-963-11
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US-10-315-431-33
US-10-372-653-11
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US-10-373-15
US-10-413-537-10
US-10-35-212-15
US-10-035-212-15
US-10-10-23-527A-277
US-10-192-988-18
US-10-131-965-18
US-10-131-965-18
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US-10-023-592-9
US-10-131-965-18
US-10-131-965-18
US-10-23-592-1
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Sequence 10, Appl Sequence 7, Appli Sequence 12, Appli Sequence 14, Appli Sequence 14, Appli Sequence 11, Appli Sequence 11, Appli Sequence 11, Appli Sequence 11, Appli Sequence 13, Appli Sequence 15, Appli Sequence 16, Appli Sequence 17, Appli Sequence 18, Appli Sequence 18, Appli Sequence 18, Appli Sequence 18, Appli Sequence 17, Appli Sequence 18, Appli Sequence 18, Appli Sequence 7, Appli
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RESULT 2
US-09-750-963-11
; Sequence 11, Application US/09750963
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241 SPIKS 241 SPIKS	р р	121 LEIFA 121 LEIFA	61 SSPAA 61 SSPAA	1 MSLSF 1 MSLSF	Match Local Simi es 268;	1 1 284 - 663A - 10 284 - 663A - 10 Appl ence 1 0, Appl nt No. US2002 RAL INFORMATI LICANT: Bots LICANT: Gurn Hill. LICANT: Hots Roy, LICANT: Roy, LICANT: Roy, LICANT: ROY, LICANT: LICANT: REPERENCE: RENT APPLICAT RENT APPLICAT RENT FILING D. BER OF SEQ ID DSER OF SEQ ID NO 10 MGTH: 268 PE: PRT GANISM: Homo CANISM:		182 67 182 67 172 64 151 56 151 56 151 19 51 19 51 19 110 3 10 3 10 3 10 3 10 3 9 3
SPIKSKIPLGAPRKNTNSVKYRLKFRFG SPIKSKIPLSAPRKNTNSVKYRLKFRFG	REWYVALNKRGKAI REWYVALNKRGKAI	vsqgivgirgvfs vsqgivgirgvfsi	PAASLGSQGSGLEQSSFQWS	SLSFLLLLFFSHLILSAV	100.0%; larity 100.0%; Conservative	tion US/(2961A1 n, David , Audrey Austin I Kenneth e, David nrgaret A pibrob) 219R1(e) 1 NUMBER: 1199-0 S: 30		.9 267 .2 219 .2 219 .3 266 .3 266 .7 1148 .0 182 .1 144 .1 144 .1 173 .1 173
SVKYRLKFRFG 268 SVKYRLKFRFG 268	TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQP 	VKPLAMSKKGKLHA VKPLAMSKKGKLHA	QWSPSGRRTGSLY QWSPSGRRTGSLY	ILSAWAHGEKRLAPKGQPG 	Score 268; Pred. No. 4. 0; Mismatches	US/09284663A Al avid A. drey tin L. neth J. avid A. et Ann bet Ann for Factor- 1(e) BER: US/09/284,663A 999-04-15	ALIGNMENTS	US-10-935-226-7 US-10-932-284-7 US-10-16-447-13 US-10-11-19-65-9 US-10-690-019-14 US-09-901-938-27 US-10-379-334-27 US-09-801-154-39 US-09-802-154-39 US-10-425-114-59971 US-09-572-404B-3798 US-10-425-14-82 US-10-437-963-187082 US-10-437-963-187082 US-11-97-143-23466 US-10-424-955A-36 US-10-982-514-37
	THPLPRFKQSEQPELS	SAKFTDDCKFRER SAKFTDDCKFRER	CRVGIGFHLQIYP RVGIGFHLQIYP	GPAATDRNPIGSS GPAATDRNPIGSS	DB 3; Length .3e-240; Indels	or-19		226-7 284-7 915-9 915-9 915-9 938-27 938-27 938-27 9154-39 154-39 114-5971 4048-3798 4048-3798 4048-3798 4048-3798 4048-3798 4048-3798 4048-3798 4048-3782
	ELSFTVTVPEKKNP	leifavsqgivgirgvfsnkflamskkgklhasakftddckfrerfqensyntyasaihr 	PSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLS	LSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS 	h 268; ls 0; Gaps			Sequence 7, App. Sequence 13, App. Sequence 13, App. Sequence 14, App. Sequence 17, App. Sequence 27, App. Sequence 27, App. Sequence 39, App. Sequence 39, App. Sequence 39971, Sequence 3798, Sequence 3798, Sequence 187082 Sequence 187082 Sequence 282, App. Sequence 3798,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 7, Application US/09902773A Patent No. US20020034787A1
GENERAL INFORMATION:
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CURRENT FILING DATE: 2000-12-28
PRIOR APPLICATION NUMBER: US 60/173,578
PRIOR FILING DATE: 1999-12-29
NUMBER OF SEQ ID NOS: 15
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TITLE OF INVENTION: NOVEL FGF HOMOLOG ZFGF10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 268
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
             APPLICATION NUMBER: US/08/803,926
FILING DATE: 21-FEB-1997
ATTORNEY/ACENT INFORMATION:
NAME: STEFFE, ERIC K.
                                                                                 CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US/09/902,773A
FILING DATE: 12-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE,
STREET: 1100 NEW Y
                                                                                                                                                                                                                                                                                                                                                                                                  GOCAYNE, JEANNINE D.
TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-10
NUMBER OF SEQUENCES: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: HU, JING-SHAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION:
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                                                                                                                                                                                                                                                                       COUNTRY: US
ZIP: 20005-3934
                                                                                                                                                                                                                                                                                                                              CITY: WASHINGTON
REGISTRATION NUMBER: 36,688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
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Pred. No. 4.3e-240;
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                                                                                                                                                                              Version
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TITLE OF INVENTION: FACTOR-1 (FHF-1) AND METHODS OF USE
FILE REFERENCE: 07265/047003
CURRENT APPLICATION NUMBER: US/09/251,263
CURRENT FILING DATE: 1999-02-16
EARLIER APPLICATION NUMBER: 08/867,471
EARLIER APPLICATION NUMBER: 08/867,471
EARLIER FILING DATE: 1997-06-02
EARLIER APPLICATION NUMBER: 08/439,725
EARLIER APPLICATION NUMBER: 08/439,725
EARLIER FILING DATE: 1995-05-12
NUMBER: 0F SEQ ID NOS: 15
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 12
LENGTH: 268
TYPE: PRT
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HOLECULE TYPE: Procein
SEQUENCE DESCRIPTION: SEQ ID NO:
US-09-902-773A-7
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; Sequence 12, Application  
; Patent No. US2002005; GENERAL INFORMATION:
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Best Local Similarity 100.0%; Pred. No. 4.3e-240;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEPAR: (202) 371-2540
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                 ORGANISM: Homo sapiens
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                                                                               MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
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                                            MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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520020052477A1
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371-2540
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                                                                                                                                                                     Length 268;
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RESULT 6
US-10-189-360-14
i Sequence 14, Application US/10189360
; Publication No. US20030143217A1
; GENERAL INFORMATION:
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US-10-081-347-33
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SOFTWARE: PastSEQ for Windows Version 3.0
SEQ ID NO 33
LENGTH: 268;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20C1
CURRENT APPLICATION NUMBER: US/10/081,347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: US/09/229,947
PRIOR FILING DATE: 1999-01-13
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  APPLICANT:
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Holderman, Susan D.
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100.0%; Pred. No. 4.3e-240;
vative 0; Mismatches 0;
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US-10-192-988-8
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Sequence 8, Application US/10192988 Publication No. US20030166875A1 GENERAL INFORMATION:
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; OTHER INFORMATION: /note= "FGF-5"; SEQUENCE DESCRIPTION: SEQ ID NO: 14: US-10-189-360-14
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Best Local Similarity 100.0%;
Matches 268; Conservative 0
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SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
TYPE: amino acid
STRANDEDNESS: single
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COPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/189,360
FILLING DATE: 02-Jul-2002
CLASSIFICATION LOWER: US/08/718,904
FILING DATE: 24-SEP-1996
APPLICATION NUMBER: US/08/718,904
FILING DATE: 24-SEP-1996
APPLICATION NUMBER: 39,317
RAPPLICATION NUMBER: 39,317
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 760100.415C1
TELECHOMUSICATION INFORMATION:
TELEPHONE: (206) 682-6031
TELEPHONE: (206) 682-6031
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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Sosnowski, Barbara A.
TITLE OF INVENTION: COMPOSITIONS CONTAINING NUCLEIC ACIDS AND
FOR THERAPE
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241
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                        SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
                                                                                                                                                                                                                                                                              SSPAASLGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
                                                                                                        TEXTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP 240
                                                                                                                                                                  LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                                                                                                                                                                       SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
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SPIKSKIPLSAPRKNTNSVKYRLKFRFG
                                                                                TEXTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
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STATE: Washington
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                                                                                                                                                                                                                                                                                                                                                                                                                            Score 268; DB 4; Length Pred. No. 4.3e-240; O; Mismatches O; Indels
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PRIOR APPLICATION NUMBER: US/09/634,318
PRIOR ETLING DATE: 2000-12-09
PRIOR ETLING DATE: 2000-08-09
NUMBER OF SEQ ID NOS: 43
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 33
LENGTH: 268
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-315-431-33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: SNALLWOOD, PHILIP M.
APPLICANT: MACKE, Jennifer P.
ITILE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS FACTOR-2 AND METH
FILE REFERENCE: JHU1230-2
CURRENT APPLICATION NUMBER: US/10/192,988
CURRENT FILING DATE: 2002-07-10
PRIOR APPLICATION NUMBER: US 09/261,007
PRIOR APPLICATION NUMBER: US 09/261,007
PRIOR FILING DATE: 1999-03-02
PRIOR FILING DATE: 1999-03-02
PRIOR FILING DATE: 1995-05-12
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn version 3.1
SEQ ID NO 8
LENGTH: 268
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US-10-315-431-33
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Best Local Similarity
Matches 268; Conser
 Query Match
Best Local Similarity
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APPLICANT: Deisher, Theresa A.
APPLICANT: Hughes, Steven D.
APPLICANT: Moore, Emma E.
APPLICANT: Wahl, Alan F.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20C4
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Pred. No. 4.3e-240;
Score 268; DB 4; Length 268; Pred. No. 4.3e-240;
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-347-177-11
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US-10-347-177-11
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 SPIKSKIPLSAPRKNINSVKYRLKFRFG
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APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Philip M.
APPLICANT: Macke, Jennifer P.
APPLICANT: Macke, Jennifer GROWTH FACTOR HOLTIFLE OF INVENTION: FIBROBLAST GROWTH FACTOR HOLTIFLE OF INVENTION NUMBER: US/10/347,177
CURRENT APPLICATION NUMBER: US/09/251,263
PRIOR APPLICATION NUMBER: US/09/251,263
PRIOR FILING DATE: 1999-02-16
PRIOR FILING DATE: 1997-06-02
PRIOR APPLICATION NUMBER: US/08/867,471
PRIOR APPLICATION NUMBER: US/08/839,725
PRIOR FILING DATE: 1995-05-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 14
SOFTWARE: FASTSEQ for Windows Version
SEQ ID NO 11
LENGTH: 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 11, Application US/10347177 Publication No. US20030220483A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 100.0%; Score 268; DB 4; I Best Local Similarity 100.0%; Pred. No. 4.3e-240;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches 268; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: THE JOHNS HOPKINS UNIVERSITY APPLICANT: Nathans, Jeremy
                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
                                                                                                                                                                                                                       LBIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                                                                                                                                                                                                                                     SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
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SPIKSKIPLSAPRKNINSVKYRLKFRFG
                                                                                                         TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKOPP
                                                                                                                                                                                                                                                                                                                                                                                             MSLSFLLLLFPSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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PRIOR APPLICATION NUMBER: 09/572,406
PRIOR FILING DATE: 2000-05-16
PRIOR FILING DATE: 2000-05-26
PRIOR PELING DATE: 1999-05-21
PRIOR PELING DATE: 1999-05-21
PRIOR APPLICATION NUMBER: 09/514,587
PRIOR APPLICATION NUMBER: 09/093,585
PRIOR APPLICATION NUMBER: 09/093,585
PRIOR PILING DATE: 1998-06-08
PRIOR PILING DATE: 1998-06-08
PRIOR PILING DATE: 1995-06-05
PRIOR PILING DATE: 1995-06-05
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PATENTIN NUMBER: 08/464,590
PRIOR PILING DATE: 195-06-05
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PATENTIN PATENT PATENTIN PAT
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APPLICANT: Deisher, Theresa A.
APPLICANT: Conklin, Darrell C.
APPLICANT: Raymond, Fennella
APPLICANT: Bukowski, Thomas R.
APPLICANT: Holderman, Susan D.
APPLICANT: Hansen, Birgit
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20
CURRENT APPLICATION NUMBER: US/10/037,922
CURRENT FILING DATE: 2001-10-19
PRIOR APPLICATION NUMBER: 08/951,822
PRIOR FILING DATE: 1997-10-16
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US-10-372-653-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 33, Application US/10037922 Publication No. US20040096936A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 268
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CURRENT APPLICATION NUMBER: US/10/372,653
CURRENT FILING DATE: 2003-02-25
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TITLE OF INVENTION: Fibroblast Growth Factor 11
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SOPTWARE: FASTSEQ for Windows Version
SEQ ID NO 33
LENGTH: 268
TYPE: PRT
ORGANISM: Homo sapiens
US-10-854-485-33
                                                                                                                                                                                                                                                                                                                                APPLICANT: CORRLIN, DATFEIL C.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20C7
CURRENT APPLICATION NUMBER: US/10/854,485
CURRENT FILING DATE: 2004-05-26
PRIOR APPLICATION NUMBER: 10/315,431
PRIOR FILING DATE: 2002-12-09
PRIOR APPLICATION NUMBER: 10/081,347
PRIOR APPLICATION NUMBER: 09/634,318
PRIOR PILING DATE: 2002-02-21
PRIOR PILING DATE: 2000-08-09
PRIOR FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: 09/613,708
PRIOR PILING DATE: 2000-07-11
PRIOR APPLICATION NUMBER: 09/574,750
PRIOR PILING DATE: 2000-05-18
PRIOR APPLICATION NUMBER: 09/229,947
PRIOR PILING DATE: 1999-01-13
PRIOR APPLICATION NUMBER: 09/229,947
PRIOR PILING DATE: 1999-01-13
PRIOR APPLICATION NUMBER: 09/229,947
PRIOR PILING DATE: 1997-10-16
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US-10-854-485-33
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Query Match
Best Local Similarity
Matches 268; Conservat
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Publication No. US20050043234A1
GENERAL INFORMATION:
APPLICANT: Deisher, Theresa A.
APPLICANT: Conklin, Darrell C.
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SOFTWARE: FASTSEQ for Windows Version
SEQ ID NO 33
LENGTH: 268
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                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/028,646 PRIOR FILING DATE: 1996-10-16
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ORGANISM: Homo sapiens
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100.0%; Score 268; DB 5; liarity 100.0%; Pred. No. 4.3e-240; Conservative 0; Mismatches 0;
                                                 Length 268;
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US-10-413-537-10
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CURRENT APPLICATION NUMBER: US/10/413,537
CURRENT FILING DATE: 2003-04-11
PRIOR APPLICATION NUMBER: US 09/284,663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: US 09/158,342
PRIOR FILING DATE: 1998-09-21
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: CT/US98/25190
PRIOR APPLICATION NUMBER: 60/066,840
PRIOR FILING DATE: 1997-11-25
PRIOR FILING DATE: 1997-11-25
PRIOR FILING DATE: 1997-11-25
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LENGTH: 268
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APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Audrey
APPLICANT: Greey, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Lawrence, David A.
APPLICANT: Lawrence, David A.
APPLICANT: Roy, Margaret Ann
TITLE OF INVENTION: Polypeptides Sharing Sequence Identity With A Fibroblast Growth
TITLE OF INVENTION: Factor Polypeptide and Nucleic Acids Encoding The Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS:
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SPIKSKIPLSAPRKNTNSVKYRLKFRFG
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US-09-345-373-15
; Sequence 15, Application US/09345373
; Publication No. US20030077695A1
; GENERAL INFORMATION:
                                                                                                                  MEDLUM TYPE: PLOPPY CASH.
COMPUTER: IBM PC COMPACTION
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/345,373
FILING DATE:
CLASSIFICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/23,082
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/23,852
FILING DATE: 13-AUG-1996
PRIOR APPLICATION NUMBER: US/09/23,852
FILING DATE: 13-AUG-1996
PRIOR APPLICATION NUMBER: US/09/39,045
FILING DATE: 20-ABG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/39,045
FILING DATE: 13-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/910,875
FILING DATE: 13-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/910,875
FILING DATE: 13-AUG-1997
PRIOR APPLICATION NUMBER: US/09/910,875
FILING DATE: 13-AUG-1997
PRIOR APPLICATION NUMBER: US/09/910,875
FILING DATE: 13-AUG-1997
PRIOR APPLICATION NUMBER: US/09/910,875
FILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 1408.0360008/EKS
TELECOMMUNICATION INFORMATION:
TELEPAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
INFORMATION FOR SEG ID NO: 15:
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MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
     STRANDEDNESS: No. US20030077695A1 Relevant
TOPOLOGY: No. US20030077695A1 Relevant
MOLECULE TYPE: protein
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                                                                                      TYPE: amino acid
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DUAN, D. ROXANNE
RAMPY, MARK A.
MENDRICK, DONNA
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NI, JIAN
MOORE, PAUL A.
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RESULT 15
US-10-075-446-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 15, Application US/10075446 Publication No. US20030129687A1 GENERAL INFORMATION:
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Best Local Similarity
                                                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/075,446
FILING DATE: 15-Feb-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVE, NW, SUITE 600
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MOORE, PAUL A.
COLEMAN, TIMOTHY A.
GRUBER, JOACHIM R.
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
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APPLICATION NUMBER: US 08/862,432 FILING DATE: 23-MAY-1997 APPLICATION NUMBER: US 08/910,875 FILING DATE: 13-AUG-1997 APPLICATION NUMBER: US 60/055,561
                                                                                                                                                                          APPLICATION NUMBER: 09/023,082
FILLING DATE: «Unknown»
APPLICATION NUMBER: PCT/US95/01790
FILLING DATE: 14-FEB-1995
APPLICATION NUMBER: US 08/461,195
FILLING DATE: 05-JUN-1995
                                                                                               APPLICATION NUMBER: US 60/023,852
RILING DATE: 13-AUG-1996
APPLICATION NUMBER: US 60/039,045
FILING DATE: 28-FEB-1997
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DUAN, D. ROXANNE
RAMPY, MARK A.
MENDRICK, DONNA
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100.0%; Pred. No. 4.1e-201;
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Best Local Similarity
Matches 226; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 268 amino acids
TYPE: amino acid
TYPE: amino acid
STRANDEDNESS: NO. US20030129687A1 Relevant
TOPOLOGY: NO. US20030129687A1 Relevant
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
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NAME: STEFFFE, ERIC K.
REGISTRATION NUMBER: 3
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223
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EQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
                       EQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
                                                                                   RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
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Search completed: April 11, Job time : 61.5 secs 2006, 03:45:46

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Perfect score:
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268
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1: uniprot_sprot:*
2: uniprot_trembl:*
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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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Q851P2 ORYSA
O02276 CABEL
Q9J173 MOUSE
Q85444 SORBI
Q5MF08 DICLA
Q7S009 NEUCR
Q4QBT7 LEIMA
Q8BSD5 MOUSE
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Q650Z7 ORYSA
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NUCLEOTIDE SEQUENCE TISSUS=Umbilical art. MEDLINE=20379035; Pul de Vries C.J.M., van ten Cate J.W., Pannel "Differential displas expression in actival atherosclerotic lesi genes."; J. Biol. Chem. 275:2: -!- FUNCTION: This on transform NIH 3TI!- ALTERNATIVE PRODI EVENTE-LORG; Name=LORG; ISOId=P12034-1	MEDLINE-8909642; Zhan X., Bates B.; Zhan X., Bates B.; Zhan X., Bates B.; The human FGF-5 fibroblast growth Mol. Cell. Biol. [3] NUCLEOTIDE SEQUEN Ozawa K., Suzuki "An alternatively translates into a activity."; Submitted (JUL-19	Homo sapiens (Huma Bukaryota; Metazoa Mammalia; Eutheria Homo. NCBI_TaxID=9606; [1] NUCLEOTIDE SEQUENC TISSUE=Brain stem; MEDLINE=91045929; Haub O., Drucker B "Expression of the central nervous sy proc. Natl. Acad. [2]	ULT 1 5 HUMAN PGF5 HUMAN P12034; 0758 01-0CT-1989 16-0CT-2001 13-SEP-2005 Fibroblast c Name=FGF5:	00000000000000000000000000000000000000
BOTIDE SEQ UNE-Unbilic INE-203790 ries C.J.M. Cate J.W., Cate J.W., Certe J.W., Certe J.W., Certe J.W., Certe J.W., Certe J.W., Certe J.W., Certe J.W., Chem., FUNCTION: transform ALTERNATIV Event-21ce Name=Long; IsoId=Pl	NOTIDE SEQ NE=890969 X., Bates human FGF bhlast gro Cell. Bio CoTIDE SEQ k., Suzu ura T.; llternativ llates int rity.";	regro, Meta; Meta; Meta; Meta; Euthe [lia; Euthe CoriDE SEQUE=Brain st NE=9104592 O., Drucke ession of Natl. Aca	THUMAN HI (17, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	໙໙໙໙໙໙໙໙໙໙໙໙ ໙
NUCLEOTIDE SEQUENCE (ISOF TISSUE=Umbilical artery; MEDLINE=20379035; PubMed- de Vries C.J.M., van Acht ten Cate J.W., Pannekoek "Differential display ide expression in activated h atherosclerotic lesions c gense."; gense."; J. Biol. Chem. 275:23939- 1- FUNCTION: This oncoge transform NIH 3T3 cel- 1- ALTERNATIVE PRODUCTS; Event=Alternative spl Name=Long; IsoId=P12034-1; Seq	0 1 00 m 0 2 0		ST; 146; (Rel. (Rel. (Rel. (Rel.	ש ש ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט
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DI=10.1074/jbc.M9; E., Horrevoets A., of 40 genes with muscle cells. Loo both muscle active ssed in neonatal h isoforms=2; d isoforms=2;	vel protein re	ta; Vertebrata; ; Primates; Cat growth factor g-8026(1990).	ALIGNMENTS RT; 268 AA. ence update) tation update) tration (FGF-5) (HBGF-5)	
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99; id id id id id in in pecific pecific FGF-5 can	ed to a A., Komi A., in and neurotrophic	Hominidae;	32).	oryza sativ oryza sativ candida gla xenopus tro drosophila vibrio vuln vibrio vuln mus musculu magnaporthe arabidopsis

Name=Short; Synonyms=FGF-5S; IsoId=P12034-2; Sequence=VSP 001518, VSP 001519; SIMILARITY: Belongs to the heparin-binding growth factors family.

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Matches 226
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GO; GO:0008283; P:cell proliferation; TAS.
GO; GO:0007267; P:cell-cell signaling; TAS.
GO; GO:0007267; P:cell-cell signaling; TAS.
GO; GO:0008543; P:fibroblast growth factor receptor signaling...
GO; GO:0007399; P:neurogenesis; TAS.
InterPro; IPR002209; GF_heparin_bd.
InterPro; IPR002209; GF_heparin_bd.
InterPro; IPR002209; III_HBGF.
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PRINTS; PR00263; HBGF; 1.
PRINTS; PR00263; HBGF; 1.
SWART; SM00442; FGF; 1.
SWART; SM00442; FGF; 1.
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CONFLICT
SEQUENCE
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EMBL; M23534; AAB60699.1; JT_SEQ; Genomic_DNA.
EMBL; M23534; AAB60898.1; ALT_SEQ; Genomic_DNA.
EMBL; A8016517; BAAA3738 1; -; mRNA.
EMBL; AP171928; AAF89742.1; -; mRNA.
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Alternative splicing; Glycoprotein; Growth factor; Mitogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ensembl; ENSG00000138675; Homo sapiens. HGNC; HGNC:3683; FGF5.
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                                                                                                                           RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
                                                                                                                                                                                                                                                                                               GSSSRQSSSSAMSSSAASSSPAASLGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQ
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                            EQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
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86
29527
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100.0%; Pred. No. 1.2e-212;
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PSGR -> LGA (in Ref. 2).
; 08F4268B26781E9D CRC64;
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Missing (in isoform Short).
/FTId=VSP_001519.
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Q8NF90_HUMAN

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RC TISSUBLING.

RC MEDLINE=22388557, PubMed=12477932; DOI=10.1073/pnas.242603899;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Distchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Raha S.S., Mozney K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gabbs R.A.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Hodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

"Generation and initial analysis of more than 15,000 full-length human

"Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                          Director MGC Project;
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; BF535149; AAN04097.1; -; mRNA.
EMBL; BC074859; AAH74859.1; -; mRNA.
EMBL; BC074859; AH74859.1; -; mRNA.
EMBL; BC00803; F:growth factor activity; IEA.
InterPro; IPR002209; HB/F growthfact.
InterPro; IPR002209; HB/F growthfact.
InterPro; IPR002348; II1_HBGF.
PEAM; PF00167; FGF; 1.
PRINTS; PR00263; HBGFFOFF.
PRINTS; PR00263; IL1HBGF.
PRODOM3; D000031; IL1 HBGF; 1.
SNART; SM00442; FGF; 1.
Query Match
Best Local Similarity
Matches 195; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Identification of fibroblast growth factor-5 as antigen in multiple human adenocarcinomas."; Cancer Res. 61:5511-5516 (2001).
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NUCLEOTIDE SEQUENCE
MEDLINE=21347229; PubMed=11454700;
Porry-Lalley D.M., Ohnmacht
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;
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                                                                                 PROSITE; PS00247; HBGF_FGF; UNKNOWN_1.
Growth factor.
SEQUENCE 268 AA; 29551 MW; 28B7268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
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RX PubMedia14702039; DOI:10.1038/ng1285,
RA Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,
RA Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,
RA Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,
RA Yamamoto J.-I., Saito K., Kawai Y., Ismor Y., Nakamura Y.,
RA Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M.,
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RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,
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RA Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sasaki M.,
ROMITA K., Nagase T., Nomura N., Kikuchi H., Masaho Y., Yamashita R.,
ROMITA K., Nagase T., Nomura N., Kikuchi H., Masaho Y., Sasaki M.,
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RA Nakai K., Wakaina A., Takanashi Y., Nakagawa K.,
RA Nakai K., Wakai M., Nakamura Y., Ohara O., Isogai T., Sugano S.;
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Homo sapiens (Human).
Bukaryota; Metazoa; Chordata; Cra Mammalia; Eutheria; Euarchortan
                                                                                                                          EMBL; AK090557; BAC03477.1; -; m
HSSP; Q02195; 1QQK.
GO; GO:0008083; F:growth factor
InterPro; IPR002348; IL1_HBGP.
Pfam; PF00167; FGF; 1.
                                                                                                                                                                                                                                                                      Nat. Genet. 36:40-45(2004).
EMBL; AK090557; BAC03477.1; -; mRNA.
                                   PRINTS; PR00262; IL1HBGF.
PRODOM; PD000831; IL1 HBGF; 1.
SMART; SM00442; FGF; 1.
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PS00247; HBGF_FGF; UNKNOWN_1.
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RESULT 4
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13-SEP-2005 (Rel. 48, Last annotation update)
Fibroblast growth factor 5 precursor (FGF-5) (HBGF-5).
Name=Pgf5; Synonyms=Pgf-5;
Mus musculus (Mouse).
Sukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalla; Butheria; Buarchontoglires; Glires; Rodentia; Sciurognat
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                                                                                                                                                                                                                                                                                                STRAIN=C57BL/6J; TISSUE=Skin; MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
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RX MEDLINE-22388257; Pabbed-12477932; DOI=10.1073/pnas.242603899;
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EMBL; M37823; AAB02660.1; -; Genomic_DNA.

EMBL; M37821; AAB02660.1; JOINED; Genomic_DNA.

EMBL; M37822; AAB02660.1; JOINED; Genomic_DNA.

EMBL; M37821; AAB02660.1; JOINED; Genomic_DNA.

EMBL; M37821; AAB02659.1; ALT_SEQ; Genomic_DNA.

EMBL; M37821; AAB02659.1; ALT_SEQ; Genomic_DNA.

EMBL; AND16516; BAA33737.1; -; mRNA.

EMBL; AK028694; BAC26069.1; -; mRNA.

EMBL; AK028894; BAC26179.1; -; mRNA.

EMBL; AK028894; BAC26179.1; -; mRNA.

EMBL; BC071227; AAH71227.1; -; mRNA.

EMBL; BC071237; AAH71227.1; -; mRNA.

EMBL; BC071237; AAH71227.1; -; mRNA.
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PRINTS; PR00263; HBGFFGF.
PRINTS; PR00262; IL1HBGF.
ProDom; PD000831; IL1 HBGF; 1.
PROSITE; PS00247; HBGF_FGF; 1.
                                                                                                                                            MGI; MGI:95519; Fgf5.
GO; GO:0005615; C:extracellular space; TAS.
GO; GO:001001; P:glial cell differentiation;
InterPro; IPR002209; GF heparin_bd.
InterPro; IPR002348; III_HBGF.
Pfam; PF00167; FGF; 1.
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Nature 420:563-573(2002).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Name=Short; Synonyms=FGF-5S;
IsoId=P15656-2; Sequence=VSP_001520, VSP_001521;
SIMILARITY: Belongs to the heparin-binding growth factors family.
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Best Local :
                                                                                                    EMBL; D64085; BAA10966.1; -
EMBL; D64086; BAA10967.1; -
PIR; S68144; S68144.
PIR; S68145; S68145.
HSSP; P08620; 1IJT.
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COMPBIAS
CARBOHYD
VARSPLIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation update)
Fibroblast growth factor 5 precursor (FGF-5)
Name=Fgf5; Synonyme=Fgf-5;
                                                                                                                                                                                                                                                                                                                                              "The rat FGF-5 mRNA variant generated by a novel truncated form of FGF-5."; Biochim. Biochim. Acta 1306:31-33(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mammalia; Eutheria; Euarcho
Muroidea; Muridae; Murinae;
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
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SIGNAL 1
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P48807; Q63402;
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                                                                                                                                                                                                                the
                                                                                                                                                                                                                                                       Name=Short; Synonyms=FGF-5S;
IsoId=P48807-2; Sequence=VSP 001522, VSP 001523;
-!- SIMILARITY: Belongs to the heparin-binding growth factors family.
                                                                                                                                                                                                                                                                                                                                                                                                                                             NUCLEOTIDE SEQUENCE (ISOFORMS LONG AND SHORT)
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                                                                                                                                                                                                                                                                                                                                                                                                      Hattori Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=96201703; PubMed=8611621;
Figf5.

G0:0019; Fgf5.

G0:0008083; F:growth factor activity; IDA.
G0:0008163; F:nerve growth factor receptor
; G0:0008283; P:cell proliferation; IDA.
terPro; IPR002209; GF heparin_bd.
terPro; IPR002348; ILI_HBGF.
                                                                                                                                                                                                 s Swiss-Prot entry is copyright. It is produced through a ween the Swiss Institute of Bioinformatics and the EMBL European Bioinformatics Institute. There are no restrict as long as its content is in no way modified and this states.
                                                                                                                                                                                                                                                                                                                                   Event=Alternative splicing; Named isoforms=2;
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                                                                                                                                                                                                                                                                                                         IsoId=P48807-1; Sequence=Displayed;
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                                                                                        ENSRNOG00000022631;
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N-linked (GlcNAc. . .) (I
ILEI -> QIYG (in isoform
                                                                                          Rattus norvegicus
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Pred. No.
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F6A9C8153EE923D1 CRC64;
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                                                  receptor binding; TAS
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2.6e-79;
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m Short).
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RESULT 7
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ID QBSQ73_CANPA PRELIMINARY;
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DT 01-JUN-2002 (TrEMBLrel. 2:
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Matches 77
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Best Local S
Matches 90
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549 HUMAN
QGA549 HUMAN PRELIMINARY;
QGA549;
QGA549;
25-OCT-2004 (TrEMBLrel. 28, C)
25-OCT-2004 (TrEMBLrel. 28, L)
25-OCT-2004 (TrEMBLrel. 28, L)
25-OCT-2004 (TrEMBLrel. 28, L)
25-OCT-2004 (TrEMBLrel. 28, L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUCLECITION OF THE PROPERTY OF THE EMBL/GenBank/DDBJ databases. Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases. Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases. Submitted (FEB-2001) to the EMBL; AF355187; AAQ15127.1; -; mRNA.

GO; GO:0008083; F:growth factor activity; IEA.
InterPro; IPR002348; II1_HBGP.
Pfam; PF00167; FGF; 1.
ProDom; PD000831; IL1_HBGF; 1.
SPOURNCE 129 AA; 13509 MW; 98C791EB4A754EA2 CRC64;
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PRINTS; PR00262; IL1HBGF.

PRODORS PR00282; IL1 HBGF.

PRODONS PROPOSE PROP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
Eukaryota; Metazoa; (
Mammalia; Eutheria; E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9606;
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                                                                                                                                                                                                                     IYPDGKVNGSHEANMLS
                                                                                                                                                                                                                                                  IYPDGKVNGSHEANMLS
                                                                                                                                                                                                                                                                                                                                              GSSSRQSSSSAMSSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chordata; Craniata; Vertebrata; Euteleostomi; Buarchontoglires; Primates; Catarrhini; Homin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29264 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    33.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28.7%; Score 77;
100.0%; Pred. No.
21,
                                                                                                                                                                                                                                                                                   119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   , Last sequence update)
, Last annotation update)
isoform s'.
                                                                                                                                                                                                                           119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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Pred. No. 2.6e-79;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-linked (GlcNAc. ..) (Pote ILEI -> QIYR (in isoform She /FTId=VSP 001522.
Missing (In isoform Short).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fibroblast growth Poly-Ser.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /FTId=VSP_001523.
95B0A0CA7C0A200C CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7.5e-67;
hes 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  210
                                                                 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 266;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 129;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Short)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                 102
                                                                                                                                                                                                                                                                                                                                                                                                                102
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               180
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RESULT 8
Q6XKO1_RABIT
ID V6ZKKO1_RABIT PRELIMINARY;
AC Q6XKC1;
AC Q6XKC1;
DT 05-UUL-2004 (TrEMBLrel. 27, La
DT 07-UUL-2004 (TREMBLREL. 2003) to the EW
DR EMBL, AY230008; AAP55849.1; -;
FT NON_TER 1
PT NON_TER 1
PT NON_TER 99 99
SQ SEQUENCE 99 AA; 10074 MW;
     문
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                                                                                                            Query Match
Best Local S
Matches 30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 22.4%;
Best Local Similarity 100.0%;
Matches 60; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cartright J.M.;
Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AY074893; AAL82819.1; -; Genomic DNA.
EMRI: AY074892; AAL82819.1; JOINED; Genomic DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
FGF-5 (Fragment).
Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Butheria; Laurasiatheria; Carnivora; Fissipedia; Canida
                                                                                                                                                                                                                                                   EMBL; AY230008; AAP55849.1; -; mRNA.
NON_TER 1 1
NON_TER 99 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniat
Mammalia; Eutheria; Euarchontoglires;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE 153 AA; 17420 MW; ABF13D0921376295 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; AY074893; AAL82819.1;
EMBL; AY074892; AAL82819.1;
HSSP; Q02195; 1QQK.
SMR; Q8SQ73; 163-223.
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                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                      63
     70
                                                                                                          30;
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LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                            11.2%; Scilarity 100.0%; F
                                                                                                                                                                                                                         10074 MW;
                                                                                                                                                                                                                                                                                                                                H., Thebault R.-G.;
he EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Score 60; DB
%; Pred. No. 4.1
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Last sequence update)
Last annotation updat
(Fragment).
                                                                                                            Score 30; DB; Pred. No. 7.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi; oglires; Glires; Lagomorpha; Leporid
                                                                                                                                                                                                                         DC2F2385BBFD427B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRT;
                                                                                                                                      DB 2; Le
. 7.1e-21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.1e-50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 2;
                                                         92
     99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ₽
                                                                                                                                                                                                                                                                                                                                      databases
                                                                                                                                                                   Length 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 153;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Canidae;
                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>.</u>
                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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Q6XKOO_RABIT
ID Q6XKOO; RABIT PRELIMINARY;
AC Q6XKOO;
DT Q5-JUL-2004 (TrEMBLrel. 27,
DE PIDOTOBLAGE GROWTH FACTOR 5
GN NAMM=FGF5;
CO COTYCTOLAGUE.
CO
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Best Local S
Matches 27
Query Match
Best Local S
Matches 21
                                                                                                                                       PRINTS; PR00263; HBGFFGF.
PRINTS; PR00262; ILIHBGF.
ProDom; PD000831; ILI HBGF; 1.
SMART; SM00442; FGF; 1.
PROSITE; PS00247; HBGF_FGF; 1.
Growth factor.
SEQUENCE 225 AA; 25933 MW; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q5TLE2_BRARE | Q5TLE2;
Q5TLE2;
01-FEB-2005 ('01-FEB-2005 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mulsant P., de Rochambeau H., Thebault R.-G.;
Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; AV230009; AAP55850.1; -; mRNA.
GO; GO:0008083; F:growth factor activity; IEA.
InterPro; IPR002348; IL1_HBGF.
Pfam; PF00167; FGF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Oryctolagus cuniculus (Rabbit).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Lagomorpha; Leporidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Fibroblast growth factor 5 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                               "Danio rerio fibroblast growth factor 5 (fgf5) Submitted (NOV-2004) to the EMBL/GenBank/DDBJ c EMBL; AB144699; BAD69616.1; -; mRNA. ZFIN; ZDB-GENE-050201-6; £gf5. GO; GO:000803; F:growth factor activity; IEA. InterPro; IPR002209; HB/F growthfact. InterPro; IPR002209; HB/F growthfact. FFR002209; FGF; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Brachydanio rerio (Zebrafish) (Danio rerio).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Danio.
NCBI_TaxID=7955;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Name=fgf5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEOTIDE SEQUENCE
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BRARE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27;
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                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGREWYVALNKRGKAKRGCSPRVKPQH 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGREWYVALNKRGKAKRGCSPRVKPQH 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    79 AA; 9056 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10.1%;
                                     100.0%;
                                                                           7.8%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
Last sequence update)
Last annotation update)
                                     Score 21; pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٥,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8C50A729F49955E0 CRC64;
                                                                                                                                                  329EAEDBE071308C CRC64;
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       Mismatches
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                                     DB 2;
9.9e-1
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5e-18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             databases.
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                                                                       Length 225;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mRNA.";
       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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QARPOS TETNG
QARPOS;
ID QARPOS;
AC QARPOS;
AC QARPOS;
DT 13-SEP-2005 (TYEMBLYEL 31, La
CYEMBLY SEQUENCE.
RA NICAUG S., ACANTHOPTETYS;
RN NICALGOTIDE SEQUENCE.
RA NICAUG S., Jaffe D., Fisher S.
RA Dasilva C., Salalli Z., Cattoli
RA Giemont C., Salalli Z., Cattoli
RA CICAUG S., Jaffe D., Fisher S.
RA Lindblad-Toh K., Birren B., Ni
RA Lindblad-Toh K., Birren B.
RESULT 12
QBWN07 CANFA PRELIMINARY;
ID QBWN07;
AC QBWN07;
DT 01-MAR-2002 (TrEMBLrel. 2
DT 01-MAR-2002 (TrEMBLrel. 2
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                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tetraodon nigroviridis (Green puffer).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Tetraodon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUCLEOTIDE SEQUENCE.

Genoscope; Whitehead Institute Centre for Genome Research; Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  preliminary data.

EMBL; CAAE01015007; CAG09626.1; -;
InterPro; IPR002209; GF heparin_bd.
InterPro; IPR002348; ILI_HBGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -1- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PROSITE; PS00247; HBGF_FGF; 1.
                                                                                                                                                                                                                                                                      110
                                                                                                                                                                                                                                                                                                                                                                                                Similarity 100.0%; 19; Conservative 0;
                                                                                                                                                                                                                                                                                                        DDCKFRERFQENSYNTYAS
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                                                                                                                                                                                                                                                                      DDCKFRERFQENSYNTYAS
                                                                                                      PRELIMINARY;
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100.0%; Pred. No. 9.3e-10;
ive 0; Mismatches 0;
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Last annotation update)
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                                     Created)
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Last sequence update)

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RESULT 13
O13543_YEAST
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Best Local S
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cartwright J.M.;
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ of EMBL; AF453760; AAL50825.1; -; Genomic_DNA.
HSSP; P08620; 11JT.
Ensembl; ENSCAFG00000008885; Canis familiaris.
GO; GO:008083; F:growth factor activity; IEA.
InterPro; IPR002308; ILL_HBGF.
                                    Waterston
Submitted
                                                                                                                                   Nature
[2]
                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.

NUCLEOTIDE SEQUENCE.

MEDIJINS=97313267; PubMed=9169871;

MEDIJINS=97313267; PubMed=9169871;

Johnston M., Hillier L.W., Riles L., Albermann K., Andre B.,

Johnston M., Hillier L.W., Brueckner M., Delius H., Dubois E.,

Ansorge W., Benes V., Brueckner M., Delius H., Hebling U.,

Ansorge W., Benes V., Brueckner M., Goffeau A., Hebling U.,

Heumann K., Heuss-Neitzel D., Hilbert H., Hilger F., Kleine K.,

Koetter P., Louis E.J., Messenguy F., Mewes H.-W., Miosga T.,

Koetter P., Louis E.J., Messenguy F., Mewes H.-W., Miosga T.,

Moestl D., Mueller-Auer S., Nentwich U., Obermaier B., Piravandi E.,

Pohl T.M., Portetelle D., Purnelle B., Rechmann S., Rieger M.,

Schwarz S., Underwood A.P., Urrestarazu L.A., Vandenbol M.,

Verhasselt P., Vierendeels F., Voet M., Volckaert G., Voss H.,

Wernstell P., Vierendeels F., Voet M., Volckaert G., Voss H.,
                                                                                                                                                                                                                                                                                                                                                                                                        OrderedLocusNames=YLR294C;
Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
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01-JAN-1998 (TrEMBLrel.
10-MAY-2005 (TrEMBLrel.
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O13543;
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NCBI_TaxID=4932;
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                                                                                                     Pauley A.;
                                                                                                                    NUCLEOTIDE SEQUENCE
                                                                                                                                                                         Hani J., Hoheisel J.D.;
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         NUCLEOTIDE SEQUENCE
                                                                 NUCLEOTIDE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Canis familiaris (Dog).
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                                                                                                                                               nucleotide sequence re 387:87-90(1997).
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                                    R.;
(NOV-1994)
                                                                                          (DEC-1994)
                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87 AA;
                                                                                                                                                                                Wedler E., Wedler H., Zimmermann F.K.,
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                                                                                                                                                                                                                                                                                                                                                                                            Saccharomycetaceae; Saccharomyces.
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                                                                                         EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Created)
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heria; Carnivora; Fissipedia; Canidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     109
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                                                                                         databases.
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RESULT 14
Q7YOC1_ORYSA
ID Q7YOC1,
TOT Q1-OCT-2003 (T
DT 01-OCT-2003 (T
DT 01-OCT-2003 (T
DT 01-MAR-2004 (T
DR 01-MAR-200
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Best Local S
Matches 10
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUCLEOTIDE SEQUENCE.

Buell C.R., Yuan Q., Ouyang S., Liu J., Gansberger K., Jones K.M., Overton II L.L., Tsitrin T., Kim M.M., Bera J.J., Jin S.S., Overton II L.L., Tsitrin T., Kim M.M., Bera J.J., Hsiao J., Blunt S., Fadrosh D.W., Tallon L.J., Koo H., Zismann V., Hsiao J., Blunt S., Vanaken S.S., Riedmuller S.B., Utterback T.T., Feldblyum T.V., Yang Q.Q., Haas B.J., Suh B.B., Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.;

White O., Salzberg S.L., Fraser C.M.;

Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                 InterPro; IPR003851; Znf_Dof.
Pfam; PF02701; zf-Dof; 1.
PR0SITE; PS01361; ZP_DOF 1; UNKNOWN_1.
PROSITE; PS50884; ZF_DOF 2; 1.
SEQUENCE 349 AA; 35653 MW; 7C8BBF2
                                                                                                                                                                                                                                                                                                                                     EMBL; AC099043; AAP50963.1; -; Gramene; O7YOC1; -. Go; GO:0003677; F:DNA binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Oryza sativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; Em
Spermatophyta; Magnoliophyta; Liliopsida;
Ehrhartoideae; Oryzaae; Oryza.
NCBI_TaxID=39947;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Putative Dof zinc finger protein
                                                                                                                                                                                                                                                                                                                                                                                          Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases. EMBL; AC099043; AAP50963.1; -; Genomic_DNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Name=OSJNBa0079B15.26;
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Hu Y., Vannberg F., Weger J., Kramer J., Moreira D., Kelley F.,
Zuo D., Raphael J., Hogle C., Jepson D., Williamson J., Camargo
Gonzaga L., Vasconcelos A.T., Simpson A., Kolodner R., Harlow E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUCLEOTIDE SEQUENCE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Complete proteome. SEQUENCE 109 AA;
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IntAct; O13543; -.
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249
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                                                                                                                                 Similarity
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SSASSSPAAS
                                                                                                      Conservative
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(TrEMBLrel. 25, Last sequence update)
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                                                                                           100.0%; F1
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-; Genomic_DNA.
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RESULT 15 Q54TY7 DICDI ID Q54TY7_DICDI PRBLIMINARY;

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RP STRAIN-AX4;

RICHINGER L., Pachebat J.A., Gloeckner G., Rajandream M.-A.,

RA Sucgang R., Berriman M., Song J., Olsen R., Szafranski K., Xu Q.,

RA Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,

RA Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F.,

RA Hankier A.T., Lehmann R., Hamlin N., Davies R., Gaudet P., Fey P.,

RA Hilber K., Chen G., Saunders D., Sodergren E., Davis P.,

RA Hilber K., Chen G., Saunders D., Sodergren E., Davis P.,

RA Harborther P., Desany B., Just E., Morio T., Rost R., Churcher C.,

RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,

RA Kerhornou A., Nie X., Hall N., Anjard C., Hemphill L., Bason N.,

RA Kerhornou A., Nie X., Hall N., Anjard T., Rost R., Churcher C.,

RA Kerhornou A., Nie X., Van Driessche N., Cronin A., Goodhead I.,

RA Mzny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R.,

RA Mardroper A., Felder M., Thangavelu M., Johnson D., Knights A.,

RA Hauser H., James K., Quiles M., Mohan M.S., Saito T., Buchrieser C.,

RA Loulseged H., Mungall K., Oliver K., Price C., Quail M.A.,

RA Loulseged H., Mungall K., Oliver K., Price C., Quail M.A.,

RA Loulseged H., Hernandez J., Rabbinowittech E., Steffen D., Sanders M.,

RA Sugano S., White B., Walker D., Woodward J., Winckler T., Tanaka Y.,

RA Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox B.C.,

RA Shaulsky G., Schleicher M., Weinstock G., Rosenthal A., Cox B.C.,

RA Williams J., Dear P.H., Noegel A.A., Barrell B., Kuspa A.;

"The genome of the social amoeba Dictyostelium discoideum.";
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13-SEP-2005 (TrEMBLrel. 31, Created)
13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
13-SEP-2005 (TrEMBLrel. 31, Last annotation update)
14-SEP-2005 (TrEMBLrel. 31, Last annotation update)
15-SEP-2005 (TrEMBLrel. 31, Last annotation update)
16-SEP-2005 (TrEMBLrel. 31, Last annotation update)
17-SEP-2005 (TrEMBLrel. 31, Last annotation update)
18-SEP-2005 (TrEMBLrel. 31, Last sequence
19-SEP-2005 (TrEMBLrel. 31, Last sequence update)
18-SEP-2005 (TrEMBLrel. 31, Last sequence update)
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Matches 10
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GO; GO:0005634; C:nucleus; IEA.
GO; GO:0003700; F:transcription factor activity; IEA.
GO; GO:0003700; F:transcription, DNA-dependent; IEA.
GO; GO:0006355; P:regulation of transcription, DNA-dependent; IEA.
DNA-binding; Nuclear protein; Transcription; Transcription regulation.
SEQUENCE 418 AA; 47546 MW; BC86042A75C82D8A CRC64;
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-I- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from an entry with the sequence shown here is derived from the sequence sh
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Aab61660 FGF5 prot
Abp54216 Human fib
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ALIGNMENTS

Human; fibroblast growth factor-5; FGF-5; neoplasm; cytostatic; RCC; renal cell carcinoma; immunomodulator; gene therapy; carcinoma; breast; prostate; bladder; pancreas; TAA; tumour associated antigen; horseshoe kidney; Hippel-Lindau disease; acquired renal cystic disease; adult polycystic kidney disease; clone 10E4-1. Hanada 02-OCT-1999; 29-SEP-2000; 2000WO-US026689 WO200125271-A2 Homo sapiens. Human fibroblast growth factor-5 protein of ORF-2 from clone 10E4-1. 02-JUL-2001 AAB00642; AAE00642 standard; protein; 268 AA. (USSH) US DEPT HEALTH & HUMAN SERVICES 12-APR-2001. Region <u>,</u>× Yang JC; (first entry) 99US-0157103P Location/Qualifiers /label= Immunogenic_epitope

The present invention relates to a method for treating a subject having neoplasm expressing fibroblast growth factor-5 (FGF-5) comprises modulating an immune response to FGF-5 or FGF-5 expression or activity.

Claim 7; Page 99; 101pp; English.

Treating a subject having a neoplasm expressing fibroblast growth factor-5 (FGF-5), e.g. prostate, breast, bladder, or pancreas carcinoma, comprises modulating an immune response to FGF-5 or modulating FGF-5 expression or activity.

N-PSDB; AAD03941.

2001-290607/30.

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Best Local Simi
Matches 268;
  Hanada
                                                                                                                                                                                                                                                                                                                                                                                             renal cell carcinoma; immunomodulator; gene therapy; carcino prostate; bladder; pancreas; TAA; tumour associated antigen; horseehoe kidney; Hippel-Lindau disease; acquired renal cyst adult polycystic kidney disease; clone 6A4-1.
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Pred. No. 6.2e-247;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              modulating an immune response to FGF-5 or FGF-5 expression or activity. CC FGF is a tumour associated antigen (TAA). The method is useful for treating or preventing a neoplasm such as prostate carcinoma, breast CC treating or preventing a neoplasm such as prostate carcinoma, breast CC carcinoma, bladder carcinoma, pancreas carcinoma, and renal cell CC carcinoma (RCC) and diseases such as Hippel-Lindau disease, horseshoe kidneys, adult polycystic kidney disease and acquired renal cystic CC disease. FGF-5 polypeptides may be used as immunogen in the production of CC concentrations of antigen-bearing substances in biological samples, and CC concentrations of antigen-bearing substances in biological samples, and CC concentrations of antigen-bearing substances in biological samples, and CC concentrations by decreasing substances of antigen in a biological sample. The antibodies may also be used to treat FGF-5 expressing or CC overexpressing tumours by decreasing FGF-5 activity, as diagnostic agents CC to monitor the progression or regression of an FGF-5 expressing or CC overexpressing tumour in a patient undergoing therapy for the treatment CC of neoplasm. FGF-5 cDNA is also useful in gene therapy. The present CC sequence is a human FGF-5 peptide from clone 6A4-1
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to a method for treating neoplasm expressing fibroblast growth factor-5 (FGF-5)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5 (FGF-5), e.g. prostate, breast, bladder, comprises modulating an immune response to
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Pibroblast growth factor 5; PGP-5; human; eye; retina; ocular disease; retinopathy; maculopathy; retinal degeneration; retinitis pigmentosa; macular degeneration; retinal tear; macular hole; degenerative myopia; acute retinal necrosis syndrome; traumatic chorioretinopathy; Purtscher's retinopathy; oedema; retinal vision occlusion; collagen vascular disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 246 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        expression or
                                                                                                                                                                                                                                                                     AAY31792 standard;
                                                                                                                                             Human fibroblast growth factor 5.
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DB; AAD03938.
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                                                                                                                                                                                                                                                                                                                                                                        LKFRFG 246
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                                                                                                                                                                                                                                                                     protein; 268
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This sequence represents human fibroblast growth factor 5 (FGF-5), CC including the signal peptide. A claimed method of delaying, preventing or crescuing retinal cells from injury or death without causing angiogenesis CC or mitogenesis comprises administering an active FGF-5 polypeptide such CC as the present polypeptide. The retinal cells are: (a) retinal neurons CC selected from photoreceptors, retinal ganglion cells, displaced retinal CC ganglion cells, amacrine cells, displaced amacrine cells phorizontal and CC pipular neurons; or (b) supportive cells selected from Muller cells and CC pigment epithelial cells. The method is used to treat photoreceptor cell figure or death caused by an ocular disease, retinal injury, light or CC environmental trauma. The ocular disease is especially selected from: CC retinitis pigmentosa; macular degeneration, including age-related; CC retinal detachment; retinal tears; retinopathy; retinal degenerative collasease; macular hole; degenerative myopia; acute retinal necrosis CC syndrome; traumatic chorioretinopathies or contusion, such as Purtscher's CC retinal vision occlusion; collagen vascular diseases; thrombocytompenic CC purpura; uveitis; retinal vasculitis and occlusion associated with Eales CC disease and systemic lupus erythematosus (all claimed)
                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 237
                                                                                                                                                                                                                                                                                                                                                           Sequence
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29-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               method using FGF-5 for
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                                                                                                                                                                                                                                                                                      al Similarity
237; Conser
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                                                                                           LEI FAVSQG I VGI RGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                                                                                                                                                      MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAS
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                    TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                      LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                                                           SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
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TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98US-00041383.
99US-00240952.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US005375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note= "signal peptide" 22. .268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note= "mature protein"
                                                                                                                                                                                                                                                                                 88.4%; Score 237; DB 2; Lo
100.0%; Pred. No. 2.4e-217;
Live 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               retinal neuron death and
                                                                                                                                                                                                                                                                                                                    Length 268;
                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                            120
                                                                                                                                           120
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8 밁 Ś 밁 र्श

8 밁

Sequence 268

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RESULT 4
AAB110296
ID AAB1
XX AAB1
AX Bribr
                                                      CC dermatological, gastrointestinal, hepatic, respiratory, renal and CC cerebroprotective activity. (I) is useful for stimulating epithelial cell CC proliferation in patients suffering from wound, mucositis, ulcer such as cc venous statis ulcer, diabetic ulcer and cubitus ulcer. (I) is also useful for treating inflammatory bowel disease, liver disorder, lung damage, CC diabetes, oral injury, gastrointestinal injury, gut toxicity, gastric cc ulcer, duodenal ulcer, epidermolysis bullosa, skin graft, skin disorder, cc renal failure, brain injury, breast tissue injury, urothelial damage, CC female reproductive tract disorder, intestinal fibrosis, precumonitis, pleural retraction, hemopoletic syndrome cc and myelotoxicity. (I) is also useful for increasing the adherence of cskin grafts to wound beds and to stimulate re-epithelialization from the cound bed, to produce changes in hepatocyte proliferation, to reduce the cside effects of gut toxicity, to regenerate skin in full and partial ct hickness skin defects, and to prevent and heal damage to lungs. KGF-2 cshows enhanced activity, increased stability, higher yield and better csolubility. This sequence represents the fibroblast growth factor FGF5 which is described in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antiinflammatory; cytoprotective; dermatological; gastrointestinal; hepatic; respiratory; renal; cerebroprotective; mucositis; treatment; epithelial cell proliferation; inflammatory bowel disease; lung damage; liver disorder; diabetes; oral injury; gastrointestinal injury; gut toxicity; gastric; duodenal; epidermolysis bullosa; skin graft; skin disorder; renal failure; brain injury; intestinal fibrosis; proctitis, female reproductive tract disorder; pulmonary fibrosis; preumonitis; pleural retraction; hemopoietic syndrome; myelotoxicity; preumonitis; pleural retraction; hemopoietic syndrome; myelotoxicity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel keratinocyte growth factor useful for promoting and accelerating wound healing, comprising at least 10 contiguous amino acids from a specific amino acid sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-FEB-1997;
23-MAY-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-JUN-1995;
13-AUG-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB10296;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB10296 standard; protein; 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2000-441307/38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mendrick D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14-FEB-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fibroblast growth factor; FGF5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; keratinocyte growth factor; KGF-2; antiulcer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fibroblast growth factor FGF5 protein SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-NOV-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HUMA-) HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            invention describes a novel human keratinocyte growth factor, KGF-2 which has antiulcer, antidiabetic, antiinflammatory, cytoprotective, attological, gastrointestinal, hepatic, respiratory, renal and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Duan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENOME
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96US-0023852P.
97US-0039045P.
97US-00862432.
97US-0055561P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98US-00023082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              97US-00910875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             95WO-US001790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2A-C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ŖĮ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         190pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ni J, Jim
Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jimenez P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Zhang J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Coleman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Moore
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rampy MA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gruber JR
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RESULT 5
AAB616
ID AAB6
XX AAB6
AC AAB6
XX AAB6
AC AAB6
XX AAB6
XX AAB6
XX AAB6
XX KGTA
XX KGTA
XX KGTA
XX KGTA
XX KGTA
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XX HO
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                                                                                                                                                                                                                                                                                                                                                                                                                                           02-JUL-1999; 99US-0142343P.
14-JUL-1999; 99US-0143648P.
15-JUL-1999; 99US-0146628P.
12-AUG-1999; 99US-014935P.
03-NOV-1999; 99US-0163375P.
22-DEC-1999; 99US-0171677P.
19-APR-2000; 2000US-0198322P.
19-MAY-2000; 2000US-0205417P.
30-JUN-2000; 2000US-00142343.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-JUL-2000; 2000WO-US018328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200102433-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pulmonary fibro
liver fibrosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Keratinocyte growth factor; KGF-2; epithelial cell proliferation; wound; mucositis; ulcer; inflammatory bowel disease; liver disorder; lung damage, diabetes; oral injury; gastrointestinal injury; epidermolysis bullosa; renal failure; brain injury; proctitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAB61660 standard;
                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-APR-2001
                                                                                                                                                                              A polynucleotide encoding the human keratinocyte growth factor useful for \mathfrak{stimulating} epithelial cell proliferation in a patients that has \mathfrak{e}.\mathfrak{g} a
                                                                                                                                                                                                                                                                WPI; 2001-071578/08.
                                                                                                                                                                                                                                                                                                                                                                                             (HUMA-) HUMAN GENOME SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local
present invention relates to human keratinocyte growth factor (KGF-2, AAF31901 and AAB61657). The present sequence is a protein used in a uence homology comparison with human KGF-2. KGF-2 can be used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         237;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    _
                                                                                                                                                                                                                                                                                                              M, Jimenez
Moore PA, (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MSLSFLLLLFFSHLILSAWAHGEKKLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANWLSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                  Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first
                                                                                                  2; 591pp; English.
                                                                                                                                                                                                                                                                                                                   Coleman
                                                                                                                                                                                                                                                                                                                                            P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein;
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                                                                                                                                                                                                                                                                                                                 Duan Di
man TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   268
                                                                                                                                                                                                                                                                                                                                         DR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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Pred. No. 2.4e-217;
                                                                                                                                                                                                                                                                                                                 Gruber JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ጅ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                 Mendrick D,
Dillon PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                   , Zhang J;
Gentz RL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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RESULT 6
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ABP54276
AC ABP5
XX ABP5
XX ABP5
XX ABP5
XX Huma
XX Kera
KW Kera
KW Woun
XX WOUN
XX WOUN
XX WOUN
XX WO20
XX WO20
XX 03-C
XX 04-J
PR 04-J
PR 04-J
PR 08-J
PR 
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Matches 237
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200277155-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pulmonary epit
wound healing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Keratinocyte growth factor 2; KGF-2; fibroblast growth factor 12;
KGF-2 Delta28; inflammation; vulnerary; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  epithelial cell; mucositis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      88.4%; Score 237; DB 4; Luilarity 100.0%; Pred. No. 2.4e-217; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first
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Treating inflammation comprises administering Keratinocyte Growth Factor -2Delta28 to a patient.

2003-018897/01.

08-JAN-2001; 2001US-0259853P 26-APR-2001; 2001US-0286368P 09-NOV-2001; 2001US-0331168P

(HUMA-) HUMAN

GENOME

SCI INC. Duan DR, ŢĄ,

Moore

Jimenez

PA,

Coleman ۵,

, Rampy MA, Gruber JR,

Mendrick D, Dillon PJ,

Gentz

04-JAN-2002; 2002WO-US000101

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RESULT 7
ADA9541
ID ADA9
XX ADA9
XX ADA9
XX Fibr
XX Kera
XX Kera
XX Kera
XX Kera
XX Kera
XX Wrinn
XW Wrinn
XW Wrinn
XW Vita
XW Vita
XW Vita
XW Vita
XX US20
XX Unid
XX Infl
XW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
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14-FEB-1995;
13-AUG-1996;
28-FEB-1997;
23-MAY-1997;
13-AUG-1997;
13-AUG-1997;
13-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes a method for treating inflammation. The method comprises administering keratinocyte growth factor 2 (KGF-2) Pelta28 to a patient. Also described: (1) a method for stimulating the growth of pulmonary epithelial cells; or (2) a method of preventing mucositis. KGF-2 Delta28 has vulnerary and dermatological activities, and can be used in gene therapy. KGF-2 Delta28 is useful for treating inflammation, stimulating the growth of pulmonary epithelial cells or preventing mucositis. It can also be used for treating epidermolysis bullosa and for promoting wound healing. ABQ82994 to ABQ83130 and ABBF3473 to ABP54111 represent sequences used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Keratinocyte growth factor 2; KGF-2; epidermal cell; keratinocyte; wrinkle; aged skin, skin strength; epidermal thickening; scarring reduction; cosmetic surgery; epithelial cell; liver; pancreas kidney; prostate; bladder; lung; oesophagus; wound healing; diabetes; ischaemic blockage; ischaemic injury; steroid; uraemia; malnutrition; vitamin deficiency; obesity; immunosuppression; radiation therapy; chemotherapy; anastomosis; ulcer; burn; mucositis; inflammatory bowel disease; inflammation; radiation-induced condition; viral hepatitis; liver failure; pancreatitis; lung damaging condition; renal failure; fibroblast growth factor; FGF.
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                                                                                                                                                                                                                                                  01-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                              Unidentified;.
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95WO-US001790.
96US-0023852P.
97US-0039405P.
97US-00862432.
97US-0055561P.
97US-00910875.
98US-00023082.
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100.0%; Pred. No. 2.4e-217;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         liver; pancreas;
ling; diabetes;
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RESULT 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to Keratinocyte Growth Factor 2 (KGF-2)
CC polypeptides and the polynucleotides encoding them. The KGF-2
CC polypeptides are useful for stimulating the proliferation of epidermal
CC cells (e.g. keratinocytes) to prevent or improve the appearance of
CC wrinkles or aged skin, improve skin strength, promote epidermal
CC thickening, reduce scarring or improve healing after cosmetic surgery.
CC thickening, reduce scarring or improve healing after cosmetic surgery.
CC thickening, reduce scarring or improve healing after cosmetic surgery.
CC thickening, reduce scarring or improve healing after cosmetic surgery.
CC theorem of the liver, pancreas, kidney, prostate, bladder,
CC (e.g. epithelial cells of the liver, pancreas, kidney, prostate, bladder,
CC (lung or oceophagus) or promoting wound healing in a wound healing
CC steroids, non-steroid compounds, uraemia, malnutrition, vitamin
CC deficiencies, obesity, infection, immunosuppression, radiation therapy or
CC deficiencies, obesity, infection, immunosuppression, radiation therapy or
CC commotinal surgical procedures such as anastomosis), ulcera, burns,
CC gastrointestinal surgical procedures such as anastomosis, ulcera, burns,
CC etc. The KGF-2 polypeptide is also useful for treating or preventing
CC disease (e.g. ulcerative collitis or crohn's disease), inflammatory bowel
CC disease (e.g. ulcerative collitis or arthritis), a radiation-induced
CC condition (e.g. oral injury, pulmonary fibrosis, myelotoxicity), viral
CC condition, or renal failure (caused by e.g. hepatitis, cirrhosis),
CC pancreatitis, liver failure (caused by e.g. emphysema, lung cancer,
CC asthma), or renal failure. The polypeptide is further useful for
CC radiation, or promoting tissue exposed to radiation (e.g.
CC radiation, or promoting tissue exposed to radiation.
CC after the form of the invention.
CC after the form of the promoting tissue exposed to radiation for the promoting tissue exposed to radiation for the form of the f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 237; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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Moore PA, Coleman
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                                                                                                                                                                                                                                                                                                                                                                        LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SSPAASIGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MSLSFLILLEFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           268 AA;
                                                                                                                                                                                                                                                                               TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSBQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MSLSPLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAS
                                                                                                                                                                                                                                                                                                                                                LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
                                                                                                                                                                                                                                                                                                                                                                                                                                            SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
                                                                                                                                                                                                                                                      TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     88.4%; Score 237; DB 6; Lo
100.0%; Pred. No. 2.4e-217;
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A, Gruber JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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Dillon PJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 268;
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Fibroblast growth factor, FGF5.

ADD66124; ADD66124

standard;

protein;

15-JAN-2004

(first entry)

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The invention relates to an isolated polypeptide comprising a sequence CC having 95% identity with amino acid residues 138 (Gly)-208 (Ser), 123 (Val)-208 (Ser), 104 (Glu)-208 (Ser), 77 (Val)-208 (Ser), 208 (Ser), 63 (Ala)-CC 208 (Ser), 36 (Thr)-208 (Ser), 36 (Thr)-208 (Ser), 69 (Ser), 63 (Ala)-CC 208 (Ser), 36 (Thr)-153 (Lys) or 138 (Gly)-208 (Ser) of human keratin growth CC factor-2 (KGF-2) appearing as ADD66111. Also included are an isolated CC polynucleotide encoding the polypeptide, a method of making a recombinant host cell, a recombinant vector, a method of producing the polypeptide, a method of stimulating proliferation of epidermal cells, a method of cell, a recombinant of CC wound healing, a method of treating wounds caused by a colonic or CC wound healing, a method of treating wounds caused by a colonic or CC gastrointestinal surgical procedure, a method of treating or preventing CC reducing inflammation, a method of promoting hair growth, a method of treating inflammatory bowel disease, a method of treating tissue exposed to radiation, a method of promoting urothelial healing, a method of condition or repair in the female CC genital tract, a method of promoting urothelial healing, a method of condition or renal failure. The polypeptide is useful for condition or renal failure. The polypeptide is useful for urothelial healing, hair growth, tissue growth or repair in the female condition in the female of the polypeptide is useful for the condition or renal failure. The polypeptide is useful for the female of the polypeptide is 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-FEB-1995;
05-JUN-1995;
13-AUG-1996;
28-FEB-1997;
13-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     preparing a composition healing, hair growth,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pibroblast growth factor; keratinocyte growth factor-2; KGF-2; epidermal cell proliferation; epithelial cell proliferation; wound healing; colonic surgery; gastrointestinal surgery; mucositis; inflammatory bowel disease; inflammation; hair growth; radiation damage; tissue growth; female genital tract repair; urothelial healing; viral hepatitis; liver failure; pancreatitis; lung damaging condition;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ
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(ZHAN/)
(NIJJ/)
(MOOR/)
(COLE/)
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(JIME/)
(DUAN/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (RAMP/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Keratinocyte Growth Factor-2 (KGF-2) polypeptide, useful for paring a composition for reducing inflammation, promoting wound ling, hair growth, or treating or preventing liver or renal failure or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003-829563/77
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COLEMAN T A.
GRUBER J R.
DILLON P J.
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MENDRICK D.

ZHANG J.

NI J.
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95US-00461195
95US-0033852P
97US-0039045P
97US-0055561P
97US-00910875
98US-00023082
99US-000345373.
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billon PJ, Gentz RL;
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RESULT 9
ADT97922
ID ADT97922
ID ADT97922
XX ADT9
AC ADT9
AC ADT9
XX ADT9
XX Huma
XX Iung
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KW Iung
XX Homc
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Matches 237
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     buccal mucosa; Lungur, keratolytic; respiratory-Gen; lung disease; Lungur; hyaline membrane disease; inhalation injury; hyaline membrane disease; infant respiratory distress syndrome; bronchiopulmonary dysplasia; infant respiratory distress syndrome; bronchiopulmonary dysplasia; infant respiratory distress syndrome; bronchiopulmonary dysplasia;
                                                                                                                                                                                       Stimulating (M1) proliferation of lung epithelial cells, or inducing hyperkeratosis of the buccal mucosa, tongue and esophagus, by administering to individual polypeptide having specific amino acid residues of keratinocyte growth factor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lung epithelial cell; cell proliferation stimulation;
buccal mucosa; tongue; oesophagus; keratinocyte growth
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                                                                                                                                       Disclosure;
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n factor; KGF-2;
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This invention relates to a novel method of stimulating proliferation of lung epithelial cells, or inducing hyperkeratosis of the buccal mucosa, tongue and oesophagus. The method involves administering to an individual

polypeptide

comprising an amino

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RESULT 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Heparin binding protein; Neuroprotective; Nootropic; Antiparkinsonian; Anticonvulaant; VEGF-3 receptor; Anglogenesis stimulator; Gene Therapy; vascular endothelial growth factor receptor 3; VEGFR-3; anglogenesis disorder; neurodegenerative disorder; Alzheimers disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human heparin
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12-JUN-2003; 2003US-0478390P.
23-SEP-2003; 2003US-00669176.
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Pred. No. 2.4e-217;
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to heparin-binding vascular endothelial growth factor receptor 3 (VEGFR-3) proteins and encoding polymucleotides. The heparin binding VEGFR-3) proteins are used for stimulating lymphangiogenesis or angiogenesis in a mammal, and for modulating the growth of mammalian endothelial cells, mammalian endothelial precursor cells or hematopoletic progenitor cells, mammalian endothelial precursor cells or promoting recruitment, proliferation, differentiation, migration or survival of neuronal cells or neuronal precursor cells, and for treating neurodegenerative disorder, e.g. Alzheimer's diseases, Parkinson's disease, Huntington's disease, e.g. Alzheimer's disease, Amyotrophic Lateral Sclerosis (ALS), dementia, or cerebral palsy. The present sequence represents a human heparin binding protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New heparin-binding Vascular Endothelial Growth Factor Receptor 3 ligands comprising prepro-VEGF-C, prepro-VEGF-D sequences or fragments, for
                                                                                                                                                                                                                                                                      Pibroblast growth factor 5; PGF-5; human; eye; retina; ocular diretinopathy; maculopathy; retinal degeneration; retinitis pigmen macular degeneration; retinal retinal tear; macular degenerative myopia; acute retinal necrosis syndrome; traumatic chorioretinopathy; Purtscher's retinopathy; oedema; retinal vision occlusion; collagen vascular disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAY31791 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 268 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Huntington's disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2005-182331/19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SSPAASIGSQGSGLEQSSPQMSPSGBRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      не Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
      99WO-US005375
                                                                                                                                                                                                                                               purpura; uveitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tammela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         factor 5 mature polypeptide.
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                                                                                                                                                                                                                                                   retinal
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                                                                                                                                                                                                                                               vasculitis; therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 268;
                                                                                                                                                                                                                                                                                                                                                                                             retinitis pigmentosa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   ocular disease;
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AAY31793
ID AAY31793
ID AAY31793
AC AAY31
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XX AAY31
XX DF O6-DE
XX DT O6-DE
XX Human
XX Fibro
KW retin
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KW degen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This sequence represents human fibroblast growth factor 5 (FGF-5) mature CC polypeptide. A claimed method of delaying, preventing or rescuing retinal CC cells from injury or death without causing angiogenesis or mitogenesis CC comprises administering an active FGF-5 polypeptide such as the present CC polypeptide. The retinal cells are: (a) retinal neurons selected from CC photoreceptors, retinal gangilon cells, displaced retinal gangilon cells, displaced retinal gangilon cells of the photoreceptors of the supportive cells selected from Muller cells and pigment epithelial CC caused by an ocular disease, retinal injury, light or environmental CC trauma. The ocular disease, retinal injury, light or environmental CC pigmentos; macular degeneration, including age-related; retinal cC detachment; retinal tears; retinopathy; retinal degenerative diseases; cmacular holes; degenerative myopia; acute retinal necrosis syndrome; cc traumatic chorioretinopathies or contusion, such as Purtscher's cc retinopathy; oedema; ischemic conditions such as central or branch cc purpura; uveitis; retinal vasculitis and occlusion associated with Eales of disease and systemic lupus erythematosus (all claimed)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Simi
Matches 216;
          Fibroblast growth factor 5; FGF-5; human; eye; retina; ocular disease; retinopathy; maculopathy; retinal degeneration; retinitis pigmentosa; macular degeneration; retinal detachment; retinal tear; macular hole;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 248 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12-MAR-1998;
29-JAN-1999;
                                                                                    Human fibroblast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 3; Fig 8; 52pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  treating ocular diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel method using FGF-5 for preventing retinal neuron
                                                                                                                                                                                         AAY31793 standard; protein; 247
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DB; AAX87991.
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                                                                                                                                                                                                                                                                                                                                                                    LAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRG
                                                                                                                                                                                                                                                                                                                                                                                                                                         SPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKF
                                                                                                                                                                                                                                                                                                       CSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                                                                                                                                LAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRG
                                                                                                                                                                                                                                                                                                                                                                                                                     SPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQW
                                                                                                                                                                                                                                                                              CSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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 myopia; acute retinal
                                                                                                                        (first
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99US-00240952.
                                                                                    growth factor 5 mature
                                                                                                                        entry)
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Pred. No.
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necrosis syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2.4e-197;
                                                                                    polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length
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RESULT 13
AAE00639
ID AAE00
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AAE00639 standard;

peptide; 246 AA

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This sequence represents human fibroblast growth factor 5 (FGF-5) mature CC polypeptide. A claimed method of delaying, preventing or rescuing retinal CC cells from injury or death without causing angiogenesis or mitogenesis CC comprises administering an active FGF-5 polypeptide such as the present protoreceptors, retinal cells are: (a) retinal neurons selected from CC photoreceptors, retinal ganglion cells, displaced retinal ganglion cells, borizontal and bipolar neurons; CC or (b) supportive cells selected from Muller cells and bipolar neurons; CC cells. The method is used to treat photoreceptor cell injury or death CC caused by an ocular disease is especially selected from: retinal cC cells. The ocular disease is especially selected from: retinitis CC detachment; retinal tears; retinopathy; retinal degenerative disease; CC macular holes; degenerative myopia; acute retinal necrosis syndrome; CC traumatic chorioretinopathies or contusion, such as Purtscher's CC traumatic chorioretinopathies or contusion, such as central or branch CC retinal vision occlusion; collagen vascular disease; thromboytompenic CC disease and systemic lupus erythematosus (all claimed)
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel method using FGF-5
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29-JAN-1999;
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SPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                                          PSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVESNKFL
                                                                                                                                                                                                                                                                                                                                                                      EKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSPQWS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ocular diseases
                                                                                                                                                                   AMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGC
                                                                                                                                                                                                                                                                                                                                         EKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQWS
                                                                                                              AMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGC
                                                                                                                                                                                                                          PSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFL
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99US-00240952.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  80.2%; Score 215; DB 2; L
100.0%; Pred. No. 2.2e-196;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for preventing retinal neuron death
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               247;
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AAE00639;

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                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neoplasm expressing fibroblast growth factor-5 (FGF-5) comprises modulating an immune response to FGF-5 or FGF-5 expression or activity FGF is a tumour associated antigen (TAA). The method is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to a method for treating a subject having neoplasm expressing fibroblast growth factor-5 (PGP-5) comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    expression or activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating a subject having a neoplasm expressing fibroblast growth factor-5 (FGF-5), e.g. prostate, breast, bladder, or pancreas carcinoma, comprises modulating an immune response to FGF-5 or modulating FGF-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-290607/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hanada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; fibroblast growth factor-5; FGF-5; neoplasm; cytostatic; RCC; renal cell carcinoma; immunomodulator; gene therapy; carcinoma; breast; prostate; bladder; pancreas; TAA; tumour associated antigen; horseshoe kidney; Hippel-Lindau disease; acquired renal cystic disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human fibroblast growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        02-JUL-2001
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                                                                                                                                                                                                                                            Local
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                                                                       81
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                                                                                                                                                                                                                                           Similarity
                                                                                                                                               GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
                                                                                                                                                                                    GSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 102
                                                                                                                                                                                                                                                                                                 246 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page 92; 101pp; English.
                         RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
                                                                                               IYPDGKVNGSHEANMLSVLRIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
 RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
                                                                       IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
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                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                         72.8%; Score 195; DB 4; L
100.0%; Pred. No. 2.7e-177;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               factor-5 (FGF-5) peptide
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                                                                                                                                                                                                                         Mismatches
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RESULT 14
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Best Local Similarity
Matches 195; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel fusion proteins comprise FGF linked to saporin. FGF-1 to -9 may be used, pref. FGF-1 (AAR70812), FGF-5 (AAR70813), FGF-7 (AAR70814) or FGF-1 (AAR70815) muteins, in which at least 1 Cys residue is replaced by conservative Ser substitutions. The fusion proteins are potent cytocidal agents to cells bearing the FGF receptor. (Updated on 25-MAR-2003 to
                                                                                                                                                                                                                                                                                                                                                                           Sequence 268 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New monogenous preparations of cytotoxic conjugates and DNA -fibroblast growth factors and cytotoxic agents for treating RC conditions such as tumours, diabetes and rheumatoid arthritis
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01-SEP-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                correct PN
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29-OCT-1993;
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RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
                                                    IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
                                                                                   IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
                                                                                                                                                                                                                  GSSSRQSSSSAMSSSSASSSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
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                                                                                                                                                              GSSSRQSSSSAMSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
                                                                                                                                                                                                                                                                                                                                                                                                                                field.
                                                                                                                                                                                                                                                                    72.8%; Score 195; DB 2; Local Larity 100.0%; Pred. No. 2.9e-177; Conservative 0; Mismatches 0;
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93US-00145829.
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RESULT 15
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                                                                                                                                                     CC AAR80776-84 are fibroblast growth factors (FGF) FGF-1 to FGF-9 CC crespectively. DNA encoding these fibroblast growth factors can be used to CC create an FGF/saporin fusion protein. DNA encoding such fusion proteins CC are useful for targetting saporin (a cytotoxin) to a cell carrying the CC include in partic. DNA encoding a therapeutic protein, antisense DNA or CC include in partic. DNA encoding a therapeutic protein, antisense DNA or CC conjugates of the invention are used to inhibit cell proliferation in CC cells carrying the particular growth factor receptor; also when TA is DNA CC it can be used to deliver this to cells (for gene therapy). A specific copplication is to prevent excessive proliferation of epithelial cells, CC ibroblasts and keratinocytes in the anterior eye after surgery, partic. CC to prevent recurrence of pterygii after surgical removal, closure of crabeculectomy after glaucoma surgery and corneal clouding after excimer CC laser treatment. Other conditions which may be treated include tumours, CC restenosis, psoriasis, Dupuytren's contracture, diabetic complications, CC Kaposi's sarcoma and rheumatoid arthritis
                                                           Query Match
Best Local Similarity
Matches 195; Conserv
                                                                                                                               Sequence 268 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 33; Page 144; 204pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New conjugates of growth factor receptor ligand and targetted agent - partic. DNA or cytotoxin, used to control cell proliferation in the eye, e.g. to prevent growth of pterygii and corneal clouding.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sosnowski BA,
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15-MAR-1994;
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                  GSSSRQSSSSAMSSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
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                                                           72.8%; So illarity 100.0%; I Conservative 0;
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94US-00213447.
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                                                           Score 195; DB 2; L. Pred. No. 2.9e-177; 0; Mismatches 0;
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                 EQPELSFTVTVPEKK 237
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US-09-218-3-373-15
US-09-240-952-3
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CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR PILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTMARE: FastSEQ for Windows Version 4.0
SEQ ID NO 7942
LENGTH: 268
TYPE: PRT
ORGANISM: Human
US-09-949-016-7942
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US-09-949-016-7942
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Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS
FILE REFERENCE: CL001307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 268; DB 2; I Best Local Similarity 100.0%; Pred. No. 2.7e-245; Matches 268; Conservative 0; Mismatches 0;
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                                                             SPIKPKIPLSAPRKNTNSVKYRLKFRFG
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US-08-462-169B-13
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US-09-545-14
US-08-705-245-14
US-09-390-207-30
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US-08-822-573-4
US-08-822-573-4
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Word size :

Title: Perfect score:

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                                                                                                                                                                                         FILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
                                                                                                                                TELEFAX: 202-371-2540
[NFORMATION FOR SEQ ID NO: 15: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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APPLICANT:
APPLICANT:
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                                                                                                                                                                                                                                                                                                                                FILING DATE: 23-MAY-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/910,875
FILING DATE: 13-AUG-1997
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: 435
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: PCT/US95/01790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C. STREET: 1100 NEW YORK AVE, NW, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: GENTZ, REINER L.
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/023,852
FILING DATE: 13-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/I
FILING DATE: 14-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08
PILING DATE: 05-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
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APPLICATION NUMBER:
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                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                  STRANDEDNESS:
                                                                                                   TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER:
                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
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6077692
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JIMENEZ, PABLO
DUAN, D. ROXANNE
RAMPY, MARK A.
                                                                                                                       268 amino acids
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23-MAY-1997
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88.4%; Score 237;
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Query Match

DB 2;

Length 268;

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US-09-240-952-2
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                                                                                                             Query Match
Best Local Similarity 100.
237; Conservative
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/041
FILING DATE: 12-Mar-98
ATTORNEY/AGENT INFORMATION:
NAME: Svoboda, Craig G.
REGISTRATION NUMBER: 39,04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: P1 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/240,952
FILING DATE: 29-Jan-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: Method of Pr
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APPLICANT: La Fleur, Mon
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                                                                                                                                                                                                                     TYPE: Ami
TOPOLOGY:
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                                                                                                                              88.4%; Score 237; DB 2; Lo
100.0%; Pred. No. 5.6e-216;
tive 0; Mismatches 0;
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Neurons and Treating Ocular
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                                   GENERAL INFO
GENERAL INFO
APPLICANT
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LENGTH: 268
TYPE: PRT
ORGANISM: Homo s
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GENERAL INFORMATION:
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Best Local (
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TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2
FILE REFERENCE: 1488.1060002
CURRENT APPLICATION NUMBER: US/09/248,998
CURRENT FILING DATE: 1999-02-12
EARLIER APPLICATION NUMBER: US 60/114,387
EARLIER FILING DATE: 30-DEC-1998
EARLIER APPLICATION NUMBER: US 60/074,585
EARLIER APPLICATION NUMBER: US 60/074,585
EARLIER FILING DATE: 13-FEB-1998
NUMBER OF SEQ ID NOS: 148
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APPLICANT: Rampy, Mark A.
APPLICANT: Mendrick, Donna
APPLICANT: Russell, Deborah
APPLICANT: Louie, Arthur
                  APPLICANT:
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                                                                                                                                                                                INFORMATION:
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                                                                                     Jimenez, Pablo
Duan, D. Roxanne
Rampy, Mark A.
Mendrick, Donna
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Moore, Paul A. Coleman, Timothy A. Gruber, Joachim R.
                                                     Zhang, Jun
Ni, Jian
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100.0%; Pred. No. 5.6e-216;
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US-09-610-651-15
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PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: 09/34
PRIOR FILING DATE: 1999-07-01
PRIOR APPLICATION NUMBER: 60/14
PRIOR FILING DATE: 1999-07-02
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PRIOR FILING DATE: 1997-02-28
PRIOR APPLICATION NUMBER: 60/05
PRIOR FILING DATE: 1997-08-13
PRIOR FILING DATE: 1997-08-13
PRIOR FILING DATE: 1997-08-13
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Matches 237; Conservative
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PRIOR FILING DATE: 1995-02-14
PRIOR APPLICATION NUMBER: 08/461,195
PRIOR FILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: 1995-06-05
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PRIOR FILING DATE: 2000-0
NUMBER OF SEQ ID NOS: 176
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PRIOR FILING DATE: 1999-09-:
PRIOR APPLICATION NUMBER: 6:
PRIOR FILING DATE: 1999-11-
PRIOR APPLICATION NUMBER: 6:
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CURRENT APPLICATION NUMBER: US/09/610,651
CURRENT FILING DATE: 2000-06-30
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PRIOR FILING DATE: 1996-08-13
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PRIOR FILING DATE: 1997-05-23
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TITLE OF INVENTION:
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APPLICATION NUMBER: 60/
FILING DATE: 1999-08-12
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APPLICATION NUMBER:
FILING DATE: 2000-
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                   TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRPKQSEQPELSFTVTVPEKK 237
                                                                                               LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
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TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
                                                                        LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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                                                                                                                                                                                                                                                                                                           88.4%; Score 237; DB 2; Lt 100.0%; Pred. No. 5.6e-216;
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RESULT 6

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US-09-345-373-15
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Patent No. 6903072
GENERAL INFORMATION:
                                                                                                                                             PILING DATE: 13-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/055
PILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
                                                                                                                                                                                                                                                                                                                                                                                                                               PILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 60/023,852
PILING DATE: 13-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 60/039,045
PILING DATE: 28-PEB-1997
                                                                       TELEPAX: 202-371-2540
NPOWMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVE, NW, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
TITLE OF IN
                                                                                                                                                                                                                                                                                                                                  FILING DATE: 23-MAY-PRIOR APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOPTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/09/345,373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
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STRANDEDNESS: No. 6903072 Relevant TOPOLOGY: No. 6903072 Relevant MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
PRIOR APPLICATION DATA:
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                                                          TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER:
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                                                      amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JIMENEZ, PABLO
DUAN, D. ROXANNE
RAMPY, MARK A.
MENDRICK, DONNA
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                                                                                                                                                                                                                                                                                                                                                                             NUMBER: US 08/862,432
23-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAUL A.
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                                                                                                                                                                                                                                                                                 US 60/055,561
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                                                                                                                                                                                      1488.0360008/EKS
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Query Match

88.4%;

Score 237;

DB 2;

Length 268;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 100.0%; I Matches 237; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                      CUMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, \
CURRENT APPLICATION DATE:
APPLICATION NUMBER: US/10/075,446
FILING DATE: 15-Peb-2002
CLASSITEFOATTON
                  ATTORNEY/AGENT INFORMATION: NAME: STEFFFB, ERIC K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 2005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C. STREET: 1100 NEW YORK AVE, NW, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COLEMAN, TIMOTHY A.
GRUBER, JOACHIM R.
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: RUBEN,
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                                                      APPLICATION NUMBER: US 08/461,195
FILLING DATE: 05-UN-1995
APPLICATION NUMBER: US 60/023,852
FILLING DATE: 13-AUG-1996
APPLICATION NUMBER: US 60/039,045
FILLING DATE: 28-FEB-1997
APPLICATION NUMBER: US 08/862,432
FILLING DATE: 23-MAY-1997
APPLICATION NUMBER: US 08/910,875
FILLING DATE: 13-AUG-1997
APPLICATION NUMBER: US 60/055,561
FILLING DATE: 13-AUG-1997
APPLICATION NUMBER: US 60/055,561
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                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 09/023,082
FILING DATE: «Unknown»
APPLICATION NUMBER: PCT/US95/01790
FILING DATE: 14-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: WASHINGTON
REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OF SEQUENCES: 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NI, JIAN
MOORE, PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JIMENEZ, PABLO
DUAN, D. ROXANNE
RAMPY, MARK A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MENDRICK, DONNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 5.6e-216;
); Mismatches 0;
36,688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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TELECOMMUNICATION INFORMATION:

REFERENCE/DOCKET NUMBER: 1488.0360008/EKS

TELEPHONE: 202-371-2600

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RESULT 8
US-09-240-952-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent NO. 6331...

GENERAL INFORMATION:

APPLICANT: Kajavin, Ivar

APPLICANT: La Fleur, Monique

APPLICANT: La Fleur, Monique

TITLE OF INVENTION: Method of Preventing the Death of Retinal

TITLE OF INVENTION: Neurons and Treating Ocular Diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3, Application US/09240952 Patent No. 6331523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 237; Conservative
                                                   CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/041,38
PILING DATE: 12-Mar-98
ATTORNEY/AGENT INFORMATION:
NAME: Svoboda, Craig G.
REGISTRATION NUMBER: 39,04
REFERENCE/DOCKET NUMBER: P108
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1489
                    TELEFAX: 650/952-9881 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: 202-371-2540 INFORMATION FOR SEQ ID NO: 15: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: ISH PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/240,952
FILLING DATE: 29-Jan-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                     STREET: 1 DNA WAY
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 94080
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TYPE: amino acid
STRANDEDNESS: No. 6916786 Relevant
TOPOLOGY: No. 6916786 Relevant
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
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CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
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                                                                                               P1088P1
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Pred. No. 5.6e-216;
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Sequence 5, Application US/09240952
Patent No. 6331523
GENERAL INFORMATION:
APPLICANT: K1javin, Ivar
APPLICANT: La Fleur, Monique
TITLE OF INVENTION: Method of Prev
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 9
US-09-240-952-5
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Best Local Similarity 100.
Matches 216; Conservative
                                      Query Match
   Best Local Similarity 100 Matches 215; Conservative
                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb fl.
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/99/240,952
PILING DATE: 29-Jan-1999
                                                                                                                                                                    TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                            CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION UNBER: 09/041,383
FILING DATE: 12-Mar-98
ATTORNEY/AGENT INFORMATION:
NAME. Craiced
                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 247 amino acid
                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-1489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                         NAME: Svoboda, Craig G.
REGISTRATION NUMBER: 39,044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: Amino Acid
TOPOLOGY: Linear
                                                                                            TYPE: amino acid
TOPOLOGY: Linear
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                                                                                                                                 247 amino acids
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100.0%; Pr
100.0%; O;
80.2%; Score 215; DB 2; L; 100.0%; Pred. No. 3.3e-195; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Method of Preventing the Death of Retinal
Neurons and Treating Ocular Diseases
                                                                                                                                                                                                                                                                                                                                                                                                            US/09/240,952
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Pred. No. 3.8e-196;
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                                    Length 247;
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US-08-439-725A-12
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Fatent No. 5693775
GENERAL INFORMATION:
APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Philip M.
APPLICANT: Macke, Jennifer P.
TITLE OF INVENTION: FIBROBROBLAST GROWTH FACTOR HOMOLOGOUS
TITLE OF INVENTION: FACTOR-1 (FHF-1) AND METHODS OF USE
NUMBER OF SEQUENCES: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: ·IBM PC compatible
COMPUTER: ·IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARR: PALENTIN RC-BOS/MS-DOS
SOFTWARR: PALENTIN Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/439,725A
FILING DATE: 12-MAY-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07265/047001
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                            Matches
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-08-439-725A-12
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INFORMATION FOR SEQ ID NO: 12:
                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acid
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ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STATE: CA
COUNTRY: US
ZIP: 92037
                                                                                                                                                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: not
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PSGRRTGSLYCRVGIGFHLQIYÞDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFL 142
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RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
                                        IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF 162
                                                                  IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
                                                                                                                        GSSSRQSSSSAMSSSSASSSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHIQ 102
                                                                                                                                                        GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
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                                                                                                                                                                                                                                                                                                                                                                                               268 amino acids
                                                                                                                                                                                                        72.8%; Score 195; DB 1; Lilarity 100.0%; Pred. No. 2.9e-176; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      USA
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US-08-464-590A-17
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Best Local Similarity 100.0%;
"Arches 195; Conservative (
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (201) 994-1744
INFORMATION FOR SEQ ID NO: 17:
                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: 32
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 994-1700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J. G.
REGISTRATION NUMBER: 30,073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: CRELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
ADDRESSEE: STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: HU, JING-SHAN
APPLICANT: ROSEN, CRAIG A.
TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-11
NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                  TYPE: STRANDEDNESS: SIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/464,590A FILING DATE: 05-JUN-1995 CLASSIFICATION: 536
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE:
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223
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o. 5763214
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EQPELSFTVTVPEKK 237
                                                               RERFOENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPOHISTHFLPRFKOS
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100.0%; Pred. No. 2.9e-176;
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RESULT 12 US-08-207-412B-12

Sequence 12, Application US/08207412B Patent No. 5817485

GENERAL INFORMATION:

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RESULT 13
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REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-100
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEPAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 195; Conserv
                                                                                                                                   Sequence 12, Application US/08867471 Patent No. 5872226
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                                                                                                                 GENERAL INFORMATION:
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STATE: ...
COUNTRY: USA
COUNTRY: 07068-1739
CTD: ORADABLE F
APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Philip M.
APPLICANT: Macke, Jennifer P.
TITLE OF INVENTION: FIBROBROBLAST GROWTH
TITLE OF INVENTION: FACTOR-1 (FHF-1) AND
NUMBER OF SEQUENCES: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PATEN: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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TITLE OF INVENTION: Fibroblast Growth Factor-10
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TOPOLOGY: 1i
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ATTORNEY/AGENT INFORMATION:
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STRANDEDNESS: si
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                   FACTOR HOMOLOGOUS METHODS OF USE
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RESULT 14
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TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-867-471-12
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Best Local Similarity
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NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 0726
TELECOMPUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEPAX: 617/678-5099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
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PRIOR APPLICATION DATA:
APPLICATION UNMER: 08/439,725
FILING DATE: 12-MAY-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
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CITY: L
STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acids
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FILING DATE: 02-JUN-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY:
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; Pred. No. 2.9e-176;
0; Mismatches 0;
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US-08-439-8
US-08-438-439C-8
Sequence 8, Application US/08438439C
Patent No. 5876967
GENERAL INFORMATION:
APPLICANT: Mathans, Jeremy
APPLICANT: Macke, Jennifer P.
TITLE OF INVENTION: FIBROBROBLAST GROWTH FACTOR HOMOLOGOUS
TITLE OF INVENTION: FIBROBROBLAST GROWTH FACTOR HOMOLOGOUS
TITLE OF INVENTION: FACTOR-2 AND METHODS OF USE
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
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US-08-951-82-33

Sequence 33, Application US/08951822A

PATECH NO. 5989866

GENERAL INFORMATION:
APPLICANT: Conklin, Darrell C.
APPLICANT: Conklin, Darrell C.
APPLICANT: Hansen, Fenella
APPLICANT: Holderman, Susan D.
APPLICANT: Hansen, Birgit
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE 96-20
CURRENT APPLICATION NUMBER: US/08/951,822A
CURRENT FILING DATE: 1997-10-16
NUMBER OF SEQ ID NOS: 36
SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 33
LENGTH: 268
TYPE: PAT
ORGANISM: Homo sapiens
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COMPATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION UMMBER: US/08/438,439C
FILING DATE: May 12, 1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REGISTRATION NUMBER: 39,347
REFERENCE/DOCKET NUMBER: 07265/046001
TELEPHONE: 619/678-5099
INFORMATION FOR SEQ ID NO: 8:
CENTIFICE CHARACTERISTICS:
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Query Match
Best Local Similarity
Matches 195; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
LENGTH: 268 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: linear
MOLECULE TYPE: protein
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COMPUTER: IB
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   72.8%; Score 195; DB 1; Liarity 100.0%; Pred. No. 2.9e-176; Conservative 0; Mismatches 0;
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                                    Length 268;
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     Indels
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                        GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
EQPELSFTVTVPEKK 237
                                                                                                          GSSSRQSSSSAMSSSSASSSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
                                                                   IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
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Search completed: April 11, 2006, 03:43:02 Job time : 22 secs

223

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Result
No.
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Maximum DB seq length: 200000000
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                     Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   April 11, 2006, 03:43:16; Search time 60.5 Seconds (without alignments) 1850.880 Million cell updates/sec
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*
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Copyright
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GenCore version 5.1.7 (c) 1993 - 2006 Biocceleration Ltd.
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            US-09-345-373-15
US-10-075-446-15
US-10-075-212-15
US-10-035-212-15
US-10-1868-577A-27
US-10-968-577A-27
US-09-750-963-11
US-09-751-263-12
US-09-751-263-12
US-10-181-347-33
US-110-182-988-8
US-10-182-988-8
US-10-1854-485-3
US-10-1854-485-3
US-10-131-655-9
US-10-131-982-988-18
US-10-131-982-98
US-10-131-982-98
US-10-131-982-98
US-10-131-982-98
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US-10-131-955-15
US-10-023-592-9
US-10-131-955-15
US-09-425-021-13
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                        Sequence 15, Appl
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Sequence 27, Appl
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Sequence 11, Appl
Sequence 11, Appl
Sequence 12, Appl
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Sequence 11, Appl
Sequence 11, Appl
Sequence 11, Appl
Sequence 33, Appl
Sequence 33, Appl
Sequence 10, Appl
Sequence 10, Appl
Sequence 13, Appl
Sequence 13, Appl
Sequence 13, Appl
Sequence 13, Appl
Sequence 14, Appl
Sequence 15, Appl
Sequence 16, Appl
Sequence 17, Appl
Sequence 18, Appl
Sequence 19, Appl
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9	9	502	359	109	10	10	287	173	82	82	144	144	268	267	267	267	267
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US-10-982-514-37	US-10-424-955A-36	US-11-097-143-23466	US-10-437-963-187082 .	US-10-451-467A-282	US-09-572-404B-3799	US-09-572-404B-3798	US-10-425-114-59971	US-10-767-701-41558	US-09-802-154-39	US-09-801-968-39	US-10-379-334-27	US-09-901-938-27	US-10-690-019-14	US-10-932-284-7	US-10-935-226-7	US-10-123-481-7	US-10-374-207-8
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37, Appl	36, Appl	23466, A	187082,	282, App	3799, Ap	3798, Ap	59971, A	41558, A	39, Appl	•	•	•	14, Appl	7, Appli	7, Appli	7, Appli	8, Appli

ALIGNMENTS

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Sequence 15, Application US/09345373
Publication No. US20030077695A1
GENERAL INFORMATION:
APPLICANT: RUBEN, STEVEN M.
APPLICANT: UMAN, D. ROXANNE
APPLICANT: HORRY TOWN
APPLICANT: THERN, STEVEN M.
APPLICANT: THERN, STEVEN M.
APPLICANT: RAMPY, MARK A.
APPLICANT: THERN, STEVEN M.
APPLICANT: COLEMAN, D. ROXANNE
APPLICANT: COLEMAN, J. ROYANNA
APPLICANT: COLEMAN, TINOTHY A.
APPLICANT: GENTZ, REINER L.
APPLICANT: DILLON, PATRICK J.
APPLICANT: GENTZ, REINER L.
APPLICANTON STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
STREET: 1100 NEW YORK AVE, NW, SUITE 600
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: POPPY disk
COMPUTER: IBM PC COMPATIBLE
OPERATION TYPE: PLODE/MS-DOS
SOFTMARE: POPPY disk
COMPUTER: USA
INTERPLICATION NUMBER: US/09/345,373
FILING DATE:
APPLICATION NUMBER: US/09/345,373
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE: 13-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE: 13-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE: 13-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE: 28-PEB-197
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE: 28-PEB-197
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/345,373
FILING DATE: 28-PEB-197
PRIOR APPLICATION DATA:
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REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488

TELECOMMUNICATION INFORWATION:

TELEPHONE: 202-371-2600

TELEPAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 268 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 15, Application No. US2003 GENERAL INFORMATION:
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Best Local Similarity
Matches 237; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 13-AUG-1997
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 60
FILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: FRICE FRICE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 268 amino acids
TYPE: amino acid
STRANDEDNESS: No. US20030077695Al Relevant
TOPOLOGY: No. US20030077695Al Relevant
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: PAtentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                           TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX
STREET: 1100 NEW YORK AVE, NW, SUITE 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
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                                                                                                                                                        STATE: DC
                                                                                                                                                                             CITY: WASHINGTON
                                                                                                                                      COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Application US/10075446 No. US20030129687A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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JIMENEZ, PABLO
DUAN, D. ROXANNE
RAMPY, MARK A.
                                                                                                                                                                                                                                                                                             NI, JIAN
MOORE, PAUL A.
COLEMAN, TIMOTHY A.
GRUBER, JOACHIM R.
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100.0%; Pred. No. 4.8e-210;
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                                                                                                                                                                                               GOLDSTEIN & FOX, P.L.L.C.
                    Version
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LENGTH: 268 amino acids
;
TYPE: amino acids
;
STRANDEDNESS: NO. US20030129687A1 Relevant
;
TOPOLOGY: NO. US20030129687A1 Relevant
;
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-10-075-446-15
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                                                                                   ; Sequence 15, Applicati

Publication No. US2003

GENERAL INFORMATION:

APPLICANT: Ruben, Ste

APPLICANT: Jimenez,

APPLICANT: Duan, D.

APPLICANT: Rampy, M.

APPLICANT: Mendrick,

APPLICANT: Zhang, Ju
                                                                                                                                                                                                                                                                                               US-10-035-212-15
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Best Local Similarity
                       APPLICANT:
                                                                   APPLICANT:
  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 202-371-2540 INFORMATION FOR SEQ ID NO: 15: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/10/075,446
FILING DATE: 15-Feb-2002
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATE:
APPLICATION DATE: 09/023,082
PILING DATE: «Unknown»
APPLICATION NUMBER: 09/023,082
PILING DATE: 14-FEB-1995
APPLICATION NUMBER: US 08/461,195
FILING DATE: 14-FEB-1995
APPLICATION NUMBER: US 60/023,852
FILING DATE: 05-7UN-1995
APPLICATION NUMBER: US 60/023,045
APPLICATION NUMBER: US 60/039,045
APPLICATION NUMBER: US 08/82,432
FILING DATE: 28-FEB-1997
APPLICATION NUMBER: US 08/862,432
FILING DATE: 23-MAY-1997
APPLICATION NUMBER: US 08/910,875
PILING DATE: 13-AUG-1997
APPLICATION NUMBER: US 08/910,875
PILING DATE: 13-AUG-1997
APPLICATION NUMBER: US 08/910,875
PILING DATE: 13-AUG-1997
APPLICATION NUMBER: US 08/910,875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 60/055,561
FILING DATE: 13-AUG-1997
ATTORNEY/ACENT INFORMATION:
NAME: STEFFFE, ERIC K.
                                                                                                                                                                                                                                                                                                                                                                                                                                          181
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Coleman, Timothy A. Gruber, Joachim R.
                                                                Zhang, Jun
Ni, Jian
                                                                                                              Rampy, Mark A.
Mendrick, Donna
                                                                                                                                                           Jimenez, Pablo
Duan, D. Roxanne
                                                                                                                                                                                                                                                                       Application US/10035212
                                           Moore, Paul A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.4%; Score 237; DB 4; Lilarity 100.0%; Pred. No. 4.8e-210; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                    US20030186904A1
                                                                                                                                                                                                         Steven M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 36,688
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Patrick J.

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APPLICANT: Coleman, Timothy A.
APPLICANT: Gruber, Joachim R.
APPLICANT: Gruber, Joachim R.
APPLICANT: Griber, Joachim R.
FITTLE OF INVENTION: Keratinocyte Growth Factor-2
FILE REFRENCE: 1488.036000J
CURRENT APPLICATION NUMBER: US/10/733,311
CURRENT FILING DATE: 2003-12-12
PRIOR APPLICATION NUMBER: US/99/610,651
PRIOR APPLICATION NUMBER: PCT/US95/01790
PRIOR FILING DATE: 1995-02-14
PRIOR APPLICATION NUMBER: 08/461,195
PRIOR FILING DATE: 1995-06-05
PRIOR PILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: 08/696,135
PRIOR APPLICATION NUMBER: 08/696,135
PRIOR APPLICATION NUMBER: 08/662,432
PRIOR FILING DATE: 1997-05-23
PRIOR FILING DATE: 1997-05-23
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; Sequence 15, Application US/10733311

; Publication No. US20040224387A1
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CURRENT APPLICATION NUMBER: US/10/035,212
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: 60/259,853
PRIOR FILING DATE: 2001-01-05
PRIOR APPLICATION NUMBER: 60/286,368
PRIOR FILING DATE: 2001-04-26
PRIOR FILING DATE: 2001-04-26
PRIOR FILING DATE: 2001-11-09
NUMBER OF SEQ ID NOS: 176
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Best Local (
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SEQ ID NO 15
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TYPE: PRT
ORGANISM: Homo sapiens
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Gentz, Reiner L.
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Ni, Jian
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Mendrick, Donna
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Duan, D. Roxanne
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; ORGANISM: Homo sapiens
US-10-868-577A-27
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; ORGANISM: Homo
US-10-733-311-15
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publication No. US20050032697A1
GENERAL INFORMATION:
APPLICANT: Alitalo et al.
TITLE OF INVENTION: HEPARIN BINDING VEGER-3
                                                                                                                                                                          Best Local Sin Matches 237;
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/10/868,577A

CURRENT FILING DATE: 2004-06-14

PRIOR APPLICATION NUMBER: US 60/478,390

PRIOR FILING DATE: 2003-06-12

PRIOR APPLICATION NUMBER: US 10/669,176

PRIOR PILING DATE: 2003-09-23
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PRIOR FILING DATE: 1998-02-13
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 176
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PRIOR APPLICATION NUMBER: 60/055,561
PRIOR FILING DATE: 1997-08-13
PRIOR APPLICATION NUMBER: 08/910,875
PRIOR FILING DATE: 1997-08-13
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PRIOR APPLICATION NUMBER: 60/039,045
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                       61 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV 120
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APPLICANT: Botstein, David A.
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Lawrence, David A.
APPLICANT: Lawrence, David A.
APPLICANT: Roy, Margaret Ann
TITLE OF INVENTION: Pibroblast Growth Factor-19
FILE REFERENCE: p1219R1(e)
CURRENT APPLICATION NUMBER: US/09/284,663A
CURRENT FILING DATE: 1999-04-15
NUMBER OF SEQ ID NOS: 30
SEQ ID NO 10
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US-09-284-663A-10
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PRIOR FILLING DATE: 2002-01-04
PRIOR PELICATION NUMBER: 60/259,853
PRIOR FILLING DATE: 2001-01-08
PRIOR PELICATION NUMBER: 60/286,368
PRIOR APPLICATION NUMBER: 60/286,368
PRIOR PELICATION NUMBER: 60/331,168
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PRIOR PELICATION NUMBER: 60/31,168
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publication No. US20050037966A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Keratinocyte Growth Factor-2
FILE REFERENCE: PF155P2D1
CURRENT APPLICATION NUMBER: US/10/901,210
CURRENT FILING DATE: 2004-07-29
CURRENT FILING DATE: 2004-07-29
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Best Local Similarity
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SEQ ID NO 15
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100.0%; Pred. No. 4.8e-210;
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CURRENT APPLICATION NUMBER: US/09/750,963
CURRENT FILING DATE: 2000-12-28
PRIOR APPLICATION NUMBER: US 60/173,578
PRIOR FILING DATE: 1999-12-29
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 11
LENGTH: 268
TYPE: PRT
ORGANISM: Homo sapiens
US-09-750-963-11
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US-09-750-963-11
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Best Local 9
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Best Local Similarity 100.0%;
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TITLE OF INVENTION: NOVEL FGF HOMOLOG ZFGF10
FILE REFERENCE: 99-83
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TYPE: PRT
ORGANISM: Homo
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                                                                                RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
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                    EQPELSFTVTVPEKK 237
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EQPELSFTVTVPEKK
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 237
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; Pred. No. 2.7e-171;
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; Pred. No. 2.7e-171;
0; Mismatches 0;
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RESULT 9
US-09-902-773A-7
i Sequence 7, Application US/09902773A
; Patent No. US20020034787A1
; Patent INFORMATION:
GENERAL INFORMATION:

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STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO:

US-09-902-773A-7
                                                                                                                                                                                                                                 US-09-251-263-12
                                                                                                                                                                                                                                                         RESULT 10
GENERAL INFORMATION:
APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Philip M.
APPLICANT: Smallwood, Philip M.
APPLICANT: Macke, Jennifer P.
ITTLE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS
TITLE OF INVENTION: FACTOR-1 (FHF-1) AND METHODS OF USE
FILE REFERENCE: 07265/047003
CURRENT APPLICATION NUMBER: US/09/251,263
CURRENT FILING DATE: 1999-02-16
                                                                                                                                                                                          Sequence 12, Application US/09251263 Patent No. US20020052477A1
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Best Local Similarity
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEPAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
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FILING DATE: 21-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/902,773A
FILING DATE: 12-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
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ADDRESSEE: STERNE, KESSLER, GOLDSTEIN &
STREET: 1100 NEW YORK AVENUE, SUITE 600
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MEDIUM TYPE: Floppy disk
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TITLE OF INVENTION: FIBROBLAST GROWTH FACTOR-10
NUMBER OF SEQUENCES: 14
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EARLIER FILING DATE: 1997-06-02
EARLIER APPLICATION NUMBER: 09/439,725
EARLIER FILING DATE: 1995-05-12
NUMBER OF SEQ ID NOS: 15
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 12
LENGTH: 268
TYPE: DET
                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: US/09/229,947
PRIOR FILING DATE: 1999-01-13
NUMBER OF SEQ ID NOS: 43
SOPTWARE: PASTSEQ for Windows Version 3.0
SEQ ID NO 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 33, Application US/10081347 Publication No. US20030008351A1
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Best Local Similarity 100.0%; F
Matches 195; Conservative 0;
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APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Deisher, Theresa A. APPLICANT: Conklin, Darrell C. APPLICANT: Raymond, Fenella APPLICANT: Bukowski, Thomas R. APPLICANT: Holderman, Susan D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/081,347
CURRENT FILING DATE: 2002-02-21
                                                                                                                                                                                                                                                                                                               LENGTH: 268
TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                     Local Similarity
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100.0%; Pred. No. 2.7e-171;
tive 0; Mismatches 0;
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; Pred. No. 2.7e-171;
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OTHER INFORMATION: /note= "FGF-5";
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-189-360-14
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                                                                                                                                                                                                                                             Matches 195;
                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (206) 682-60 INFORMATION FOR SEQ ID NO: 14: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: PStentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: Release #1.0, Version #1.25
APPLICATION NUMBER: US/10/189,360
FILING DATE: 02-U1-2002
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
NAME: NO. US20030143217Altenburg Ph.D.,
REGISTRATION NUMBER: 39,317
REFERENCE/DOCKET NUMBER: 760100.415C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 682-6031
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Sosnowski, Barbara A.
TITLE OF INVENTION: COMPOSITIONS
FOR THERAPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/718,904
FILING DATE: 24-SEP-1996
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MEDIUM TYPE: Ploppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Baird, J. Andrew
                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
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 223
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                                                                                                                                                                                            43 GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 102
                                                                                                                                                                                                                                                                 Similarity
                                                                                                                            IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF 162
EQPELSFTVTVPEKK 237
                                                      RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
                                                                                                                                                                        GSSSRQSSSSAMSSSSSAASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
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                                                                                                       IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS: single
TOPOLOGY: unknown
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                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                             72.8%; Score 195; DB 4; L
100.0%; Pred. No. 2.7e-171;
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                                                                                                                                                                                                                                                                            Length 268;
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                                                                                                                                                                                      Sequence 33, Application US/10315431
Publication No. US/10303099443A1
GENERAL INFORMATION:
APPLICANT: Ellsworth, Jeff L.
APPLICANT: Deisher, Theresa A.
APPLICANT: Hughes, Steven D.
APPLICANT: Hoore, Emma E.
APPLICANT: Wahl, Alan F.
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US-10-192-988-8
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SEQ ID NO 8
LENGTH: 268
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                                                                    NUMBER OF SEQ ID NOS: 43
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SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 33
LENGTH: 268
TYPE: PRT
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TITLE OF INVENTION, FIBROBLAST GROWTH FACTOR HOMOLOGOUS FACTOR-2 AND METHODS FILE REFERENCE: JHU1230-2
CURRENT APPLICATION NUMBER: US/10/192,988
CURRENT EILING DATE: 2002-07-10
PRIOR APPLICATION NUMBER: US 09/261,007
PRIOR FILING DATE: 1999-03-02
PRIOR FILING DATE: 1999-03-02
PRIOR FILING DATE: 1995-05-12
NUMBER: 09 SEQ ID NOS: 25
                                                                                                                                       TITLE OF INVENTION: NOVEL FGF HOMOLOGS
FILE REFERENCE: 96-20C4
CURRENT APPLICATION NUMBER: US/10/315,431
CURRENT FILING DATE: 2002-12-09
PRIOR APPLICATION NUMBER: US/09/634,318
PRIOR PILING DATE: 2000-08-09
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APPLICANT: Nathans, Jeremy
APPLICANT: Smallwood, Philip M.
APPLICANT: Macke, Jennifer P.
FIER PRICENT: Macke, Jennifer P.
FILE OF INVENTION: FIBROBLAST GROWTH FACTOR HOMOLOGOUS FACTOR-1 (FHF-1) AND METHODS
FILE REFERENCE: JHU1240-3
CURRENT APPLICATION NUMBER: US/10/347,177
CURRENT FILING DATE: 2003-01-16
FRIOR APPLICATION NUMBER: US 09/251,263
PRIOR APPLICATION NUMBER: US 09/251,263
PRIOR APPLICATION NUMBER: US 08/667,471
FRIOR APPLICATION NUMBER: US 08/667,471
FRIOR APPLICATION NUMBER: US 08/667,471
FRIOR APPLICATION NUMBER: US 08/67,471
FRIOR FILING DATE: 1997-06-02
PRIOR FILING DATE: 1995-05-12
NUMBER OF SEQ.ID NOS: 14
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 11
LENGTH: 268
TYPE: PRT
CRGANISM: Homo sapiens
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US-10-347-177-11
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Publication No. US20030220483A1
GENERAL INFORMATION:
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223
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                                                                                                RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS 222
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                          EQPELSFTVTVPEKK 237
                                                                                                                                                                                                                                      GSSSRQSSSSAMSSSSAASSSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ 102
                                                                              RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
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237
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Search completed: April 11, 2006, 03:45:45

Job time : 60.5 secs



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Result
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Maximum DB
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Perfect score:
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3: /SIDSS/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

4: /SIDSS/ptodata/2/pubpaa/US03_NEW_PUB.pep:*

5: /SIDSS/ptodata/2/pubpaa/US03_NEW_PUB.pep:*

6: /SIDSS/ptodata/2/pubpaa/US10_NEW_PUB.pep:*

7: /SIDSS/ptodata/2/pubpaa/US10_NEW_PUB.pep:*

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Copyright (c) 1993 - 2006 Biocceleration Ltd.
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US-11-134-703-6
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US-11-134-703-33
US-11-086-568A-20771
US-11-086-568A-20771
US-11-096-568A-5443
US-11-238-936-10
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                         12, Appl
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| 7                    | 7                 | 7                 | 7                    | 7                 | 7                 | 7                    | 7                   | 7                 | 7                  | 7                    | 7                 | 7                  | 7                   | 7                  | 7                 | 7                 | 7                 | œ                 | œ                 |
| 2.6                  | 2.6               | 2.6               | 2.6                  | 2.6               | 2.6               | 2.6                  | 2.6                 | 2.6               | 2.6                | 2.6                  | 2.6               | 2.6                | 2.6                 | 2.6                | 2.6               | ۵.<br>6           | 2.6               | 3.0               | 3.0               |
| 198                  | 193               | 191               | 186                  | 186               | 186               | 180                  | 176                 | 164               | 163                | 141                  | 133               | 115                | 112                 | 110                | 98                | 54                | 25                | 3969              | 791               |
| 7                    | 7                 | σ                 | 7                    | 7                 | 7                 | 7                    | 7                   | 7                 | 7                  | 7                    | 9                 | 7                  | 7                   | 7                  | σ                 | 7                 | 7                 | σ                 | σ                 |
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| Sequence 18593, A    | Sequence 11, Appl | Sequence 873, App | Sequence 17455, A    | Sequence 22, Appl | Sequence 21, Appl | Sequence 12758, A    | Sequence 7838, Ap   | Sequence 4, Appli | Sequence 2378, Ap  | Sequence 13393, A    | Sequence 22, Appl | Sequence 2629, Ap  | Sequence 7612, Ap   | Sequence 3422, Ap  | Sequence 138, App | Sequence 34, Appl | Sequence 61, Appl | Sequence 59, Appl | Sequence 962, App |

## ALIGNMENTS

```
APPLICANT: HANDAGENIC EPITOPES FOR FIE
FILE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIE
FILE REPERRENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
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 ; TYPE: PRT; ORGANISM: Homo sapiens US-11-134-703-18
 US-11-134-703-18
(S-11-134-703-18); Sequence 18, Application US/11134703; Publication No. US20060009393A1; GENERAL INFORMATION:
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 PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PATENTIN Ver. 3.3
SEQ ID NO 18
LENGTH: 268
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Best Local Similarity
Matches 268; Conserv
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181
 121
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 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSPTVTVPEKKKPP
 100.0%; Score 268; DB 7; I larity 100.0%; Pred. No. 6.1e-246; Conservative 0; Mismatches 0;
 FIBROBLAST GROWTH FACTOR 5 (FGF-5)
 Length 268;
 0
 Gaps
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RESULT 3
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 PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR PILING DATE: 2003-11-19
PRIOR PPLICATION NUMBER: US 60/427,920
PRIOR PILING DATE: 2002-11-19
PRIOR PILING DATE: 2002-11-19
PRIOR EILING DATE: 2002-03-27
PRIOR PPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR PILING DATE: 2000-09-29
PRIOR PILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
PRIOR PILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
 Sequence 10, Application US/11134703

Publication No. US20060009393A1

GENERAL INFORMATION:
APPLICATT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: US/11/134,703
CURRENT APPLICATION NUMBER: US/05-05-19
PRIOR APPLICATION NUMBER: US/05-05-19
PRIOR PILING DATE: 2003-11-19
PRIOR FILING DATE: 2002-11-19
PRIOR FILING DATE: 2002-11-19
 SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 12
LENGTH: 246
 Sequence 12, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:
 Query Match
Best Local Similarity
 Matches 246; Conservative
 ORGANISM: Homo sapiens -11-134-703-12
 APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
APPLICATION NUMBER: US 10/089,485
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 LKFRFG 246
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100.0%; Pred. No. 3.7e-225;
rative 0; Mismatches 0;
 Length 246;
 Indels
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 Gaps
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 120
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 (FGF-5)
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 CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: ECT/US2003/37065
PRIOR TILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 1909-10-02
NUMBER OF SEQ ID NOS: 43
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
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 ; ORGANISM: Homo sapiens US-11-134-703-10
 US-11-134-703-4
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 ; ORGANISM: Homo sapiens
US-11-134-703-4
 SOPTWARE: PatentIn Ver. 3.3
SEQ ID NO 4
LENGTH: 268
TYPE: PRT
 SOFTWARE: PatentIn Ver. 3.3 SEQ ID NO 10
 APPLICANT: Hanada et al.
 Query Match 72.8%; Score 195; DB 7; Louis Local Similarity 100.0%; Pred. No. 6.6e-177; Matches 195; Conservative 0; Mismatches 0;
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 Sequence 4, Application US/11134703 Publication No. US20060009393A1
 PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR APPLICATION STATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
 TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5) FILS REFERENCE: 67015-05
 LENGTH: 246
TYPE: PRT
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 163
 201
 223
 103 IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF 162
103
 103
 81
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 21 GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
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 EQPELSFTVTVPEKK 237
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 GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
 IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
 ĬŸPDĠKVNĠŚHEANMĹŚVĹBĬŦAVŚQĠĬVGĬRĠVŦŚNKFLAMSKKGKĹHASAKFTDDCKF
 EQPELSFTVTVPEKK 215
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 Length 246
 Indels
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 Gaps
 Gaps
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; PRIOR APPLICATION NUMBER: US/09/417,721
; PRIOR FILING DATE: 1999-10-13
; PRIOR APPLICATION NUMBER: 609/104,103
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 15
; SOPTWARE: Patentin Ver. 2.0
; SEQ ID NO 9
; LENGTH: 266
 RESULT 5
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 ; TYPE: PRT; ORGANISM: Human FGF-5
US-11-238-936-9
 US-11-134-703-8
 Sequence 8, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:
APPLICATION NUMBER: US 10/089,485
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PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR PELICATION NUMBER: US 10/089,485
 Sequence 9, Application US/11238936 Publication No. US20060025343A1 GENERAL INFORMATION:
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Best Local Similarity
 Matches 182;
 APPLICANT: Whitehouse, Martha J.
APPLICANT: Kavanaugh, Michael W.
TITLE OF INVENTION: Angiogenically Effective Unit Dose of FGF and Method
TITLE OF INVENTION: Administering
FILE REFERENCE: 1265/12169US05
CURRENT APPLICATION NUMBER: US/11/238,936
CURRENT FILING DATE: 2005-09-29
 267
 205
 207
 145
 147
 223
 163
 163
 85
 87 RTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSK 146
 KPQHISTHFLPRFKQSEQPELSFTVTVPEKKKPPSPIKPKIPLSAPRKNTNSVKYRLKFR 266
 RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
 RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
 G.
 KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV
 RTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLBIFAVSQGIVGIRGVFSNKFLAMSK
 EQPELSPTVTVPEKK 237
 EQPELSFTVTVPEKK 237
 FG 268
 KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV
 Conservative
 67.9%; Score 182; DB 7; Lo
100.0%; Pred. No. 1.4e-164;
vative 0; Mismatches 0;
 Length 266;
 Indels
 0
 222
 206
 144
 204
 욙
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RESULT 8 US-11-134-703-6

Sequence 6, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:

```
APPLICANT: Whitehouse, Martha J.
APPLICANT: Kavanaugh, Michael W.
ITILE OF INVENTION: Administering
FILE OF INVENTION: Administering
FILE REPERBNCE: 1296/12169US05
CURRENT APPLICATION NUMBER: US/11/238,936
CURRENT FILING DATE: 2005-09-29
PRIOR APPLICATION NUMBER: US/99/417,721
PRIOR FILING DATE: 1999-10-13
PRIOR APPLICATION NUMBER: 60/104,103
PRIOR APPLICATION NUMBER: 60/104,103
PRIOR APPLICATION NUMBER: 50/104,103
PRIOR PILING DATE: 1998-10-13
VALUE OF SEQ ID NOS: 15
SOPTWARE: Patentin Ver. 2.0
SEQ ID NO 15
 Ś
 片
 S
 LENGTH: 266
; TYPE: PRT
; ORGANISM: Human FGF-5
US-11-238-936-15
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 US-11-134-703-8
 US-11-238-936-15
 Sequence 15, Application US/11238936 Publication No. US20060025343A1 GENERAL INFORMATION:
 Query Match
Best Local Similarity
Matches 176; Conserv
 SEQ ID NO 8
LENGTH: 176
 Query Match 56.3%; Score 151; DB 7; Length 266; Best Local Similarity 100.0%; Pred. No. 3e-135; Matches 151; Conservative 0; Mismatches 0; Indels
 PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
SOPTWARE: Patentin Ver. 3.3
 ORGANISM: Homo sapiens
 TYPE: PRT
205
 207
 147
 121
 61
 85
 87
 93 CRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHA 152
 KPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
 KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV 206
 RTGSLYCRVGIGFHLQIYPDGKVNGSHEANWLSVLBIFAVSQGIVGIRGVFSNKFLAMSK 146
 THFLPRFKQSEQPELSFTVTVPBKKKPPSPIKPKIPLSAPRKNTNSVKYRLKFRFG
 SAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS
 SAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS
 KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV
 RTGSLYCRVGIGPHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSK 144
 CRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHA
KPQHISTHFLPRFKQSEQPELSFTVTVPEKK 235
 THFLPRFKQSEQPELSFTVTVPEKKKPPSPIKPKIPLSAPRKNTNSVKYRLKFRFG
 Conservative
 65.7%; Score 176; DB 7; Le
100.0%; Pred. No. 4.6e-159;
ative 0; Mismatches 0;
 Unit Dose
 Length 176;
 유
 FGF and
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 0;
 Method
 Gaps
 Gaps
 268
 212
 120
 60
 of.
 0
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 Query Match
Best Local Similarity
Watches 60; Conserve
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 CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
FRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: PCT/US200/26689
PRIOR FILING DATE: 2002-09-29
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 2000-09-29
 US-11-134-703-19
 ; ORGANISM: Homo sapiens
US-11-134-703-19
 US-11-134-703-6
 SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 19
LENGTH: 60
 Sequence 19, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:
 Matches
 Query Match
Best Local Similarity
 SEQ ID NO 6
 PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 1999-10-02
 PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR PILING DATE: 2002-03-27
PRIOR PILING DATE: 2002-03-27
 FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
 TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
 SOFTWARE: PatentIn Ver. 3.3
 NUMBER OF SEQ ID NOS: 43
 APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)
 PRIOR APPLICATION NUMBER: 60/157,103 PRIOR FILING DATE: 1999-10-02
 FILE REFERENCE: 67015-05
 APPLICANT: Hanada et al.
 NUMBER OF SEQ ID NOS: 43
 TYPE: PRT
ORGANISM: Homo sapiens
 TYPE: PRT
 ENGTH: 176
 145;
161 KFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFK 220
 121
 213 THFLPRFKQSEQPELSFTVTVPEKK 237
 153 SAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS 212
 61
 93 CRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHA
 SAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS
 CRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHA
 THELPREKOSEOPELSETVIVPEKK 145
 22.4%; Score 60; DB illarity 100.0%; Pred. No. 9.8 Conservative 0; Mismatches
 Conservative
 54.1%;
 0;
 Score 145; DB 7; L; Pred. No. 9.9e-130;
 Mismatches
 DB 7; Le
. 9.8e-50;
ches 0;
 Length 60,
 Length 176;
 Indels
 Indels
 0
 0
 Gaps
 Gaps
 60
 (FGF-5)
 0
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// PEATURE:
// OTHER INFORMATION: Variant peptide sequence.
US-11-134-703-38

 US-11-134-703-38
 US-11-134-703-37
 US-11-134-703-37
 RESULT 11
 Query Match
Best Local Similarity 100.
52; Conservative
 SOPTWARE: PatentIn Ver. 3.3
SEQ ID NO 37
LENGTH: 52
TYPE: PRT
 Sequence 37, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:
 SOFTWARE: PatentIn Ver. 3.3
SEQ ID NO 38
LENGTH: 49
 Sequence 38, Applica Publication No. US20 GENERAL INFORMATION:
 APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)
FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: WS 10/089,485
PRIOR APPLICATION NUMBER: WS 10/089,485
PRIOR APPLICATION NUMBER: WS 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: WS 10/080,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: WS 10/080,485
PRIOR FILING DATE: 2002-03-27
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: WS 10/157,103
PRIOR FILING DATE: 2000-09-29
PRIOR FILING DATE: 1999-10-02
 PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
 CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR FILING DATE: 2002-11-19
 FILE REFERENCE: 67015-05
 APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)
 NUMBER OF SEQ ID NOS: 43
 FEATURE: OTHER INFORMATION: Variant peptide sequence.
 ORGANISM: Artificial Sequence
 TYPE: PRI
 ORGANISM: Artificial Sequence
 161 KFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS 212
 1 KFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS 52
 Application US/11134703
 US20060009393A1
 100.0%;
 19.4%; Score 52; DB 7; I
100.0%; Pred. No. 3.2e-42;
 0;
 Mismatches
 DB 7;
 Length 52
 Indels
 0;
 Gaps
 0
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 US-11-134-703-36
 US-11-134-703-32
 CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR APPLICATION NUMBER: US 60/427,920
PRIOR FILING DATE: 2002-11-19
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR PILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
PRIOR APPLICATION NUMBER: PCT/US00/26689
 PRIOR APPLICATION NUMBER: PCT/US2003/37065
PRIOR FILING DATE: 2003-11-19
PRIOR PPLICATION NUMBER: US 60/427,920
PRIOR PRIOR PRICATION NUMBER: US 10/089,485
PRIOR APPLICATION NUMBER: US 10/089,485
PRIOR FILING DATE: 2002-03-27
PRIOR PPLICATION NUMBER: PCT/US00/26689
PRIOR PPLICATION NUMBER: 60/157,103
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR APPLICATION NUMBER: 60/157,103
PRIOR PRICATION NUMBER: 60/157,103
PRIOR PILING DATE: 1999-10-02
 Sequence 36, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:
 Query Match
Best Local Similarity
 Sequence 32, Application US/11134703 Publication No. US20060009393A1 GENERAL INFORMATION:
 Query Match
Best Local Similarity
 SEQ ID NO 36
 Matches
NUMBER OF SEQ ID NOS:
SOFTWARE: PatentIn Ver
SEQ ID NO 32
LENGTH: 10
 Matches
 OTHER INFORMATION: Variant peptide sequence -11-134-703-36
 APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC BPITOPES FOR FIBROBLAST GROWTH FACTOR 5 (FGF-5)
FILE REFERENCE: 67015-05
CURRENT APPLICATION NUMBER: US/11/134,703
CURRENT FILING DATE: 2005-05-19
 PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentin Ver. 3.3
 APPLICANT: Hanada et al.
TITLE OF INVENTION: IMMUNOGENIC EPITOPES FOR FIBROBLAST GROWTH FACTOR 5
FILE REFERENCE: 67015-05
 PRIOR APPLICATION NUMBER: 60/157,103
 FEATURE:
 ORGANISM: Artificial Sequence
 172 NTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFK 220
 173 TYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFK 220
 49;
 TYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFK 48
 NTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFK 49
 17.9%; Score 48; DB 7; L
ilarity 100.0%; Pred. No. 1.8e-38;
Conservative 0; Mismatches 0;
 Conservative
 18.3%;
 0;
 Score 49; DB 7;
Pred. No. 2.1e-3
 Mismatches
 2.1e-39;
 0,
 Length 49;
 Length 48;
 Indels
 Indels
 0
 0
 Gaps
 Gaps
 0
 0
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 RESULT 15
US-11-096-568A-20771
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 S
 ; ORGANISM: Sorghum bicolor US-11-087-099-8568
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 ; ORGANISM: homo sapiens
US-11-134-703-32
 US-11-087-099-8568
 RESULT 14
 US-11-096-568A-20771
 Query Match
Best Local S
Matches 9
 Sequence 20771, Application US/11096568A Philication No. US20060048240A1 GENERAL INFORMATION:
APPLICANT: Alexandrov, Nickolai et al.
 TITLE OF INVENTION: Genes and Uses for Plant FILE REFERENCE: 38-21(53450)B RP CURRENT APPLICATION NUMBER: US/11/087,099 CURRENT FILING DATE: 2005-03-22 NUMBER OF SEQ ID NOS: 12464 SEQ ID NO 8568
 NUMBER OF SEQ ID NOS: 34471
SEQ ID NO 20771
LENGTH: 413
TYPE: PRT
 GENERAL INFORMATION: APPLICANT: Abad, Ma:
 Query Match 3.7%; Score 10; DB 7; Best Local Similarity 100.0%; Pred. No. 0.0039 Matches 10; Conservative 0; Mismatches
 Query Match 3.4%; Score 9; DB 7; Best Local Similarity 100.0%; Pred. No. 0.49; Matches 9; Conservative 0; Mismatches
 Sequence 8568, Application US/11087099 Publication No. US20060041961A1
 CURRENT APPLICATION NUMBER: US/11/096,568A CURRENT FILING DATE: 2005-04-01
 TITLE OF INVENTION: Sequence-Determined TITLE OF INVENTION: Therby
 FILE REFERENCE: 2750-1592PUS2
 PEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(413)
OTHER INFORMATION: Ceres Seq. ID no. 12387083
 TYPE: PRT
 ORGANISM: Zea mays subsp. mays
 ENGTH: 188
 Local Similarity
mes 9; Conserv
 117 MLSVLBIFAV 126
243
 114 SASSSPAAS 122
 58 SASSSPAAS
 55 SSSSASSSP 63
 1 MLSVLEIFAV 10
SSSSASSSP
 llarity 100.0%;
Conservative (
 Mark S. et al.
251
 66
 3.4%; Score 9;
100.0%; Pred. N
 0
 red. No. 1;
Mismatches
 DNA Fragments and Corresponding Polypeptides
 DB 7;
 Improvement
 Length 413;
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 0;
 Length 188
 Length 10;
 Indels
 Indels
 Indels
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 Gaps
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Search completed: April 11, 2006, 03:46:10 Job time : 10.5 secs

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Maximum DB
 Sequence:
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 Total number of hits satisfying
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 Searched:
 Scoring table:
 Perfect score:
 OM protein - protein search, using sw model
 91:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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pir2:*
pir3:*
pir4:*
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TYHUPS
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S68145
S68145
S68145
S68145
S67296
T01566
T01566
T01566
TVHUHS
TVHUHS
S20102
S14192
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 summaries
 SUMMARIES
 5.1.7
Biocceleration Ltd.
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GBF4 [imported] -
ATP-dependent Clp
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 Krox-20 protein
hypothetical pro
 hypothetical prote
 Description
 268
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## ALIGNMENTS

TVHUFS
fibroblast growth factor 5 - human
fibroblast growth factor 5 - human
N;Alternate names: transforming protein FGF5
C;Species: Homo sapiens (man)
C;Date: 31-Dec-1989 #sequence\_revision 31-Dec-1989 #text\_change 09-Jul-2004
C;Accession: A31194
R;Zhan, X; Bates, B; Hu, X; Goldfarb, M.
Mol. Cell. Biol. 8, 3487-3495, 1988
Mol. Cell. Biol. 8, 3487-3495, 1988
A;Title: The human FGF-5 oncogene encodes a novel protein related to fibroblast growth
A;Reference number: A31194; MUID:89096942; PMID:3211147

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RESULT 2
A36207
fibroblast growth factor 5 - mouse
C;Species: Mus musculus (house mouse)
C;Date: 28-Mar-1991 #sequence_revision 28-Mar-1991 #text_change 09-Jul-2004
C;Accession: A36207; B37360
R;Haub, O.; Drucker, B.; Goldfarb, M.
Proc. Natl. Acad. Sci. U.S.A. 87, 8022-8026, 1990
A;Title: Expression of the murine fibroblast growth factor 5 gene in the adu A;Reference number: A36207; MUID:91045929; PMID:1700424
A;Accession: A36207
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: DNA
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 A;Cross-references: GDB:119907; OMIM:165190
A;Map position: 4q21-4q21
C;Superfamily: fibroblast growth factor
C;Keywords: growth factor; transforming pro
 A;Molecule type: mRNA
A;Residues: 1-267 <ZHA>
A;Cross-references: UNIPROT:P12034; UNIPARC:UPI00000462BB; GB:M23536; GB:M21617; NID:g18
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 S
 C; Genetics:
 A;Gene: GDB:FGF5
 Matches
 Query Match
Best Local Similarity
 206
 207
 146
 147
 151;
 86
 87
 growth factor; transforming protein
 KPQHISTHFLPRFKQSEQPELSFTVTVPEKK 237
 RTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSK 146
 KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV
 KGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRV 206
 RTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSK 145
 KPQHISTHFLPRFKQSEQPELSFTVTVPEKK
 ilarity 100.0%;
Conservative (
 56.3%; Score 151; DB 1; Lo 100.0%; Pred. No. 5.3e-139;
 0
 Mismatches
 236
 Length 267;
 Indels
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 Gaps
 the adult central
 205
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RESULT 3
S68144
A;Status; preliminary; nucleic acid sequence not shown
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Kesidues: 1-121 <HAT>
A;Kesidues: 1-121 <HAT>
A;Cross-references: UNIPROT:P48807; UNIPARC:UPI000002A98F; EMBL:D64086; NID:g987689;
C;Keywords: alternative splicing
 RESULT 4
$66145
$66145
C;Species: Rattus norvegicus (Norway rat)
C;Species: Rattus norvegicus (Norway rat)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 06-Dec-1996 #sequence_ revision 13-Mar-1997 #text_chan
C;Date: 06-Dec-1996 #sequence_ revision 13-Mar-1997 #text_chan
C;Date: 06-Dec-1996 #sequence_ revision 13-Mar-1997 #text_chan
C;Accession: S68145
R;Hattori, Y:; Yamasaki, M.; Itoh, N.
Biochim. Biophys. Acta 1306, 31-33, 1996
Biochim. Biophys. Acta 1306, 31-33, 1996
A;Title: The rat FGF-5 mRNA variant generated by alternative
A;Reference number: S68145
A;Accession: S68145
 C;Accession: S68144
R;Hattori, Y:; Yamasaki, M.; Itoh, N.
Biochim. Biophys. Acta 1306, 31-33, 1996
A;Title: The rat FGF-5 mRNA variant generated by alternative A;Reference number: S68144; MUID:96201703; PMID:8611621
A;Accession: S68144
 fibroblast growth factor 5 - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
 밁
 A;Residues: 1-264 <HAUV
A;Residues: 1-264 <HAUV
A;Cross-references: UNIPROT:P15656; UNIPARC:UPI0000003F7B; GB:M37821; GB:M37822; GB:M378
R;Hebert, J.M.; Basilico, C.; Goldfarb, M.; Haub, O.; Martin, G.R.
Dev. Biol. 138, 454-463, 1990
A;Title: Isolation of CDNAs encoding four mouse FGF family members and characterization A;Reference number: A37360; MUID:90201563; PMID:2318343
A;Accession: B37360
 A;Cross-references: UNIPROT:P48807; UNIPARC:UPI000012A716; EMBL:D64085; NID:g992952; C;Superfamily: fibroblast growth factor
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 A; Molecule type: mRNA
A; Residues: 1-266 < HAT>
 A; Residues: 1-264 < HEB>
 A; Status: preliminary
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 A;Status: preliminary; nucleic acid sequence not shown
 A; Molecule type: mRNA
 Query Match
Best Local S
Matches 90
 Cross-references: UNIPARC:UPI0000003F7B; GB:M30643; NID:g193294; PIDN:AAA96698.1; Superfamily: fibroblast growth factor
 Query Match
Best Local :
 Local Similarity
 119
 179
 181
 119
 121
 179
 181
 121
 Similarity
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 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 TEKTGREWYVALNKRGKAKRGCSPRVKPQH 210
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 TEKTGREWYVALNKRGKAKRGCSPRVKPQH
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 TEKTGREWYVALNKRGKAKRGCSPRVKPQH
 ilarity 100.0%; P
Conservative 0;
 Conservative
 33.6%; Score 90; DB
100.0%; Pred. No. 1.3
cive 0; Mismatches
 33.6%; Score 90; 100.0%; Pred. No.
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 1.3e-79;
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 208
 DB 2;
 208
 210
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 1.3e-79
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 Length 264
 Length 266
 Indels
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 splicing
 09-Jul-2004
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 178
 180
 178
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RESULT T01566

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hypothetical protein A\_TM018A10.23 -

Arabidopsis thaliana

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RESULT 5
S69307
 C;Species: Saccharomyces cerevisiae
C;Date: 20-Jul-1996 #sequence_revision 23-Aug-1996 #text_change 09-Jul-2004
C;Accession: S69307
R;Pauley, A.
submitted to the EMBL Data Library, November 1994
A;Description: The sequence of S. cerevisiae cosmid 8003.
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A;Accession: T22906
A;Status: preliminary; translated
A;Molecule type: DNA
A;Residues: 1-143 <WILL>
 hypothetical protein F58D12.1 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #te:C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #te:C;Accession: T22906
 밁
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 A; Map position: 12R
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 A; Molecule type: DNA
A; Residues: 1-109 < PAU>
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 A; Reference number: S50366
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 RESULT 6
 A; Cross-references: UNIPROT: 013543;
 A;Accession: S69307
 A; Introns: 14/1; 38/2; 75/1;
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A;Experimental source: clone F58D12
 A; Map position:
 A;Gene: CESP:F58D12.1
 Query Match
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Matches 10
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Matches
 ;Cross-references:
 Query Match
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Best Local (
 Matches
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les 9; Conserv
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 82
 75
 77
53
 56 SSSASSSPA 64
 39;
 10;
 2 SISFILLIFF 11
 Similarity
 SSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEA 115
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 Conservative
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61
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 3.7%;
 90/3
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; Pred. No.
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C;Accession: S04741; A37360
R;Brookes, S.; Smith, R.; Thurlow, J.; Dickson, C.; Peters, G.
Nucleic Acids Res. 17, 4037-4045, 1989
A;Title: The mouse homologue of hst/k-FGF: sequence, genome organization
A;Reference number: S04741; MUID:89296455; PMID:2740210
A;Accession: S04741
 fibroblast growth factor 4 - mouse
N;Alternate names: transforming protein hstfl; transforming protein k-FGP; transforming
C;Species: Mus musculus (house mouse)
C;Date: 31-Mar-1991 #sequence_revision 31-Mar-1991 #text_change 09-Jul-2004
 S
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 R;Delius, H.; Hebling, U.; Hofmann, submitted to the Protein Sequence Da
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submitted to the EMBL
A;Description: The sequence of A. thaliana TM
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Pate: 19-Feb-1999 #sequence_revision 19-Feb-1999 #text_change 09-Jul-2004
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 Query Match
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 Local Similarity
 55
 37
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 1-153
 9;
 SSSSASSS 62
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 3.48;
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 Length 153;
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 GB:M28516; NID:g52
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A;Residues: 1-206 <VGS
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A;Cross-references: UNIPROT:P08620; UNIPARC:UPI0000040662; DDBJ:J02986; NID:g184430; PIE
R;Taira, M.; Yoshida, T.; Miyagawa, K.; Sakamoto, H.; Terada, M.; Sugimura, T.
Proc. Natl. Acad. Sci. U.S.A. 84, 2980-2994, 1987
A;Title: cDNA sequence of human transforming gene hat and identification of the coding spirates of number: A29876; MUID:87204251; PMID:2953031
A;Reference number: A29876; MUID:87204251; PMID:2953031
A;Accession: A29876
 Cell 50, 729-737, 1987
A;Title: An oncogene isolated by transfection of Kaposi's sarcoma A;Reference number: A29649; MUID:87301716; PMID:2957062
 C;Species: Homo sapiens (man)
C;Date: 31-Mar-1989 #sequence revision 31-Mar-1989 #text_change 09-Jul-2004
C;Accession: A28417, A29876; A29649
R;Yoshida, T.; Miyagawa, K.; Odagiri, H.; Sakamoto, H.; Little, P.F.R.; Terada, M.; Sug Proc. Natl. Acad. Sci. U.S.A. 84, 7305-7309, 1987
A;Title: Genomic sequence of hst, a transforming gene encoding a protein homologous to A;Reference number: A28417; MUID:88041096; PMID:2959959
 A;Introns: 114/1; 148/3
C;Superfamily: fibroblast growth factor
C;Keywords: growth factor; Kaposi sarcoma; transforming protein
 A;Cross-references: GDB:120066; OMIM:164980
A;Map position: 11q13.3-11q13.3
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C;Comment: This protein is an oncogene for
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A; Residues: 1-206 <BOV>
 A;Cross-references: UNIPARC:UPI0000040662; GB:J02986; GB:M16338; NID:g184430; PIDN:AAB59
R;Delli Bovi, P.; Curatola, A.M.; Kern, F.G.; Greco, A.; Ittmann, M.; Basilico, C.
 A; Molecule type: mRNA
A; Residues: 1-206 < TAI>
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 A;Gene: hst
 A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-166,'S',168-202 <HEB>
 Dev. Biol. 138, 454-463, 1990
A;Title: Isolation of cDNAs er
A;Reference number: A37360; Mt
A;Accession: A37360
 A; Accession: A29649
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 A;Cross-references: UNIPARC:UPI000000415D; GB:M30642; NID:g193290; PIDN:AAA37619.1; PID:
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 98
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 3.0%; Score 8;
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stive 0; Misma
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 encoding four mouse FGF family members MUID:90201563; PMID:2318343
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o. 7;
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A;Cross-references: GDB:119908; OMIM:134921
A;Map position: 12p13-12p13
A;Introns: 115/3; 150/2
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A;Note: it is uncertain whether Met-1, Met-11 or Met-34 is the initiator R;Ida, S.; Yoshida, T.; Naito, K.; Sakamoto, H.; Katoh, O.; Hirohashi, S.; Oncogene 7, 303-309, 1952
A;Title: Human hst-2 (PGF-6) oncogene: cDNA cloning and characterization.
A;Reference number: S23739; MUID:92195660; PMID:1549352
A;Accession: S23739
 A;Title: An unexpected transforming gene in calf-thymus carrier DNA: Bovine hst A;Reference number: JC4268; MUID:96032369; PMID:7557455 A;Accession: JC4268
 R;Marics, I.; Adelaide, J.; Raybaud, F.; Mattei, M.G.; Concogene 4, 335-340, 1989
A;Title: Characterization of the HST-related FGF.6 gene, A;Reference number: S04204; MUID:89201880; PMID:2649847
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 A;Introns: 113/3; 145/2
C;Superfamily: fibroblast growth factor
C;Keywords: thymus; transforming protein
 C;Accession: JC4268
R;Yu, J.C.; DeSeabra, A.J.J.; Wang, L.M.; Fleming, T.P.; Chedid, M.; Miki,
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C; Species: Bos prin
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 A;Cross-references: UNIPARC:UPI00000411BF; EMBL:X63454
A;Note: it is uncertain whether Met-1 or Met-11 is the
R;Marics, I; Adelaide, J.; Raybaud, F.; Mattei, M.G.;
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A; Residues: 1-208 < COU>
 A; Title: Putative structure of the FGP6 gene product and A; Reference number: S20102; MUID:91360279; PMID:1886714
 R;Coulier, F.; Batoz, M.; Marics, I.; de Lapeyriere, Oncogene 6, 1437-1444, 1991
 fibroblast growth factor 6 precursor - human N_iAlternate names: fibroblast growth factor-related protein FGF.6; transforming protein
 A;Gene: hst
 A;Cross-references: UNIPARC:UPI0000176539; GB:U15969
A;Note: The authors translated the codon GGC for residue
 Gene 162, 333-334, 1995
 A; Molecule type: mRNA
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 95
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 8
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 VGIGFHLO 97
 VGIGFHLQ 102
 Conservative
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 3.0%; Score 8;
100.0%; Pred. No.
 member of fibroblast growth
 bovine
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 O.; Birnbaum,
 Coulier, F.; Planche, J.; de Lape
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family.
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R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, Nature 402, 761-768, 1999

T.P.; Benito, M.I.; Town, C.D.; Pujii, C.Y.; hen, M.; VanAken, S.E.; Umayam, L.; Tallon, L. J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J

c

A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana A;Reference number: A84420; MUID:20083487; PMID:10617197 A;Accession: B84653

A; Gene: At2g25820 A; Map position: 2

C;Genetics:

A; Cross-references:

UNIPROT: 082315; UNIPARC: UPI0000179899; GB: AE002093; NID: g3643601;

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A;Molecule type: DNA A;Residues: 1-225 <S'

A; Status: preliminary

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R;Ollendorff, V.; Rosmet, O.; Marics, I.; Birnbaum, D.; Biochimie 74, 1035-1038, 1992
A;Title: Isolation and sequence of the murine Fgf6 cDNA. A;Reference number: I49664; MUID:93120244; PMID:1477139
A;Accession: I49665
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S14192
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A; Residues: 19-208 < RES>
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A; Accession: 149664
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A;Note: it is uncertain whether Met-1 or Met-11 is the initiator
R;Ollendorff, V.; Rosnet, O.; Marics, I.; Birnbaum, D.; deLapeyriere, O.;
 Oncogene 5, 823-831, 1990
A;Title: Structure, chromosome mapping and A;Reference number: S14192; MUID:90295275; A;Accession: S14192
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C;Species: Mus musculus (house mouse)
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A; Residues: 1-208 <LAP
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 Matches
 116/1; 150/3
lly: fibroblast
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 95
92
 95 VGIGFHLQ 102
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 Similarity
 VGIGFHLO 99
 VGIGFHLQ 102
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 O.; Marics, I.; Birnbaum, D.; deLapeyriere, O.
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RESULT 15

JC7219

JC7219

JC7219

RESULT protein SR-25 - mouse
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R;Sasahara, K.; Yamaoka, T.; Moritani, M.; Tanaka, M.; Iwahana, H.; Yoshimoto, K.; Miyag
Biochem. Biophys. Res. Commun. 269, 444-450, 2000
A;Title: Molecular cloning and expression analysis of a putative nuclear protein, SR-25.
A;Reference number: JC7219; MUID:20175222; PMID:10708573
A;Accession: JC7219
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 Q9V356 DROME
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Q8SZH2 DROME
Q851P2 ORYSA
O02276 CAEEL
Q9J173 MOUSE
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 Description
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tetraodon n
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xenopus lae
yallus gall
homo sapien
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6 caenorhabdi
mus musculu
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drosophila
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canis famil
saccharomyc
 dictyosteli
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 oryza sativ
 brachydanio
 oryctolagus
 oryctolagus
 canis famil
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| Hanada KI., Perry-L<br>Yang J.C.;<br>"Identification of fi<br>antigen in multiple h<br>Cancer Res. 61:5511-5<br>[2]<br>NUCLEOTIDE SEQUENCE.<br>Hanada KI., Yang J.<br>Submitted (AUG-2002)<br>[3]<br>NUCLEOTIDE SEQUENCE.<br>TISSUE-Lung;<br>MIDLINE-22388257; Pub<br>Strausberg R.L., Fein<br>Klausner R.D., Collin<br>Altschul S.F., Zeeber<br>Hopkins R.F., Jordan<br>Diatchenko L., Marusdi<br>Stapleton M., Soares<br>Brownstein M.J., Ugdi<br>Stapleton M., Soares<br>Brownstein M.J., Ugdi<br>Stapleton M., Woley R.M., Woley R.M., Woley<br>Butterfield Y.S.N., K<br>Schnerch A., Schein J.<br>"Generation and initial<br>and mouse CDNA sequen<br>Proc. Natl. Acad. Sci<br>191<br>NUCLEOTIDE SEQUENCE.<br>TISSUE-Lung;<br>Director MGC Project;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 40 9 41 9 42 9 43 9 44 9 45 9 45 9 45 9 45 9 45 9 46 10 10 10 10 10 10 10 10 10 10 10 10 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                     |
| Hanada K1., Per "Identification o antigen in multip Cancer Res. 61:55 [2]  [2]  [2]  [3]  NUCLEOTIDE SEQUEN STRAUBERGH S.F., Jordischenko L., Massan Rochright S.F., Zegen S.F., Jordischenko L., Massan Brownstein M., Soa Brownstein M., Soh Willalon D.K., Madan Blakesley R.W., T. Schnerch A., Sche "Generation and i and mouse CDNA see proc. Natl. Acad. 14]  NUCLEOTIDE SEQUEN DIRECTION SEQUEN DIRE   | 9 3. 9 3. 9 3. 9 3. 9 3. 9 3. 9 3. 9 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ขขขขขขข                                                                                                             |
| Perry-Lall tion of fibro multiple huma 61:5511-5516 SEQUENCE. Yang J.C.; AUG-2002) to SEQUENCE. B8257; PubMed R.L.; Peingol D.; Collins F F.; Zeeberg B F.; Jordan H.; L.; Marusina L.; Soares M.B M.J.; Ugdin T Loquellano N.; McEwan P.J.; McEwan P.J.; McEwan P.J.; McEwan B.; Ket Holm B.; Ket Holm B.; Ket Madan A.; Yo W.; Grimwon Y.S. N.; Krzy Schein J.E. and initial DNA sequences Acad. Sci. U SEQUENCE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LIMI LIMI MBLI MBLI MBLI MBLI MBLI MBLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |
| erry-Lalley D.M.  of fibroblast g piple human adeno 5511-5516(2001).  ENCE.  ENCE.  Reingold E.A., Collins F.S., Wa Zeeberg B., Buett ordan H., Moore Marusina K., Far oares M.B., Bont orden T.B., To ellano N.A., Pet wan P.J., McKern n.E., Ketteman M. an A., Young A.C. Grimwod J., Sode Man J.B., Jones initial analysi sequences." d. Sci. U.S.A. 9 ENCE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7112<br>7112<br>7112<br>7145<br>749<br>749<br>749<br>749<br>761 2<br>761 2<br>761 3<br>761 3<br>761 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4 4 4 4 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                             |
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| ion of fibroblast growth factor-5 ultiple human ademocarcinomas."; 61:5511-5516(2001).  BQUUNCE.  Yang J.C.; Vang J.C.; V | Chordata; Craniata; V Euarchontoglires; Pri Chordata; Craniata; V Euarchontoglires; Pri Euarchontoglires; Pri Euarchontoglires; Pri Euarchontoglires; Pri                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Q780U9 NEUCR Q4QET7_LEIMA Q4QET8_HUMAN Q8ESD5_MOUSE Q5VZ18_HUMAN Q9ZH9_ORYSA Q6Z9C7_ORYSA Q7TML6_MOUSE Q6Z9D7_ORYSA |
| DBJ databa DDBJ databa DDBJ databa 1073/pnas H., Derge J Schaefer C.M. Schaefer C.M. Casavant T., Casavant T., Casavant A.A., A.M., Gay Lu X., Gi Lu, Rodrigue nko Y., Bou pickson M. Myers R.M., Byers R.M., Byer | AA.  update) on update) ertebrata; mates; Cata                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UCR<br>IMA<br>USB<br>MAN<br>YSA<br>YSA<br>YSA                                                                       |
| an overexpressed an overexpressed an overexpressed as 242603899; as J.G., M., Schuler G.D. C.F., Bhat N.K., J., Hsieh F., J., Hujek S. Gibbs R.A., Gunaratne P.H. ay L.J., Hulyk S. Gibbs R.A., Gibbs R.A., Jugs S., Sanchez Bouffard G.G., n.M.C., n. | Qbzey3 ory; Qbfwg1 cand Qbfny8 dros QBdav3 vibr Q7mj05 vibr Q7mi05 vibr q7mi05 vibr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Q7s0u9<br>Q4qbt7<br>Q8bsd5<br>Q5vz18<br>Q9zrh9<br>Q650z7<br>Q7tm16                                                  |
| Th hex x x c ed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | candida xenopus drosophi vibrio v vibrio v vibrio v vibrio v vibrio r vibrio v v v vibrio v v v v vibrio v v v v v v v v v v v v v v v v v v v                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | neu<br>lei<br>mus<br>hom<br>ory<br>ory<br>mus                                                                       |
| B. W. A. human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | candida gla<br>xenopus tro<br>drosophila<br>vibrio vuln<br>vibrio vuln<br>vibrio ovuln<br>omi;<br>omi;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | rospora<br>shmania<br>musculu<br>o sapien<br>za sativ<br>za sativ<br>musculu<br>za sativ                            |

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FGF5 HA

FGF5 H

FGF5 H

AC P12034

DT 01-OCT

DT 16-OCT

DT 13-SEP

DB F1brob

GN Name=F

GN Homo s

OC Mammal

OC MAmmal

OC MAmmal

TRN [1]

RP NUCLEO

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 Query Match
Best Local Similarity
 Matches 268;
 HSSP; D8620; IJT.

GO; GO:0008083; F:growth factor activity; IRA.
InterPro; IPR002209; HB/F_growthfact.
InterPro; IPR0022348; ILI_HBGF.
Pfam; PF00167; FGF; 1.
PRINTS; PR00263; HBGFFGF.
PRINTS; PR00263; HBGFFGF.
PRINTS; PR00263; ILI_HBGF; 1.
SMART; SM00442; FGF; 1.
 FGF5 HUMAN STANDARD;
P12034; O75846;
01-OCT-1989 (Rel. 12, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
13-SEP-2005 (Rel. 48, Last annotation updat
Fibroblast growth factor 5 precursor (FGF-5
 Proc. Natl. [2]
NUCLEOTIDE
 TISSUE=Brain stem;
MEDLINE=91045929; PubMed=1700424;
Haub O., Drucker B., Goldfarb M.;
"Expression of the murine fibroblast
central nervous system.";
Proc. Natl. Acad. Sci. U.S.A. 87:8027
 NUCLEOTIDE SEQUENCE (ISOFORM LONG).
MEDLINE=89096942; PubMed=3211147;
Zhan X., Bates B., Hu X., Goldfarb
"The human FGF-5 oncogene encodes a
fibroblast growth factors.";
All Cell. Biol. 8:3487-3495(1988).
 SEQUENCE
 PROSITE; PS00247; HBGF_FGF; UNKNOWN Growth factor.
 Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
 Homo sapiens (Human)
Eukaryota; Metazoa; (
Mammalia; Eutheria; I
NUCLEOTIDE SEQUENCE
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 NUCLEOTIDE SEQUENCE (ISOFORM LONG)
 181
 241
 241
 181
 121
 121
 AF535149; AAN04097.1;
BC074858; AAH74858.1;
BC074859; AAH74859.1;
 61
 61
 H
 μ
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
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 SPIKPKIPLSAPRKNTNSVKYRLKFRFG
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 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKKPP
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(ISOFORM SHORT)
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 Score 268; DB 2;
Pred. No. 5e-253;
); Mismatches 0;
 87:8022-8026(1990)
 mRNA.
mRNA.
mRNA.
 28B7268B26781BCF CRC64;
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 growth factor 5
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(FGF-5)
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 (HBGF-5) (Smag-82)
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 gene
 268;
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 in the
 0
 Hominidae;
 Gaps
 180
 180
 240
 240
 120
 120
 60
 60
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SALATA AND SERVICE AND SERVICE PRINTS; PRO0263; HBGFFGF.

PRINTS; PR00262; IL1HBGF.

ProDom; PD000831; IL1 HBGF; 1.

SMART; SM00442; FGF; 1.

PROSITE; PS00247; HBGF FGF; 1.

Alternative splicing; Glycoprotein; Gr

Proto-oncogene; Signal.
 Ozawa K., s
 CONFLICT
CONFLICT
SEQUENCE
 Ensembl;
HGNC; HGN
MIM; 1651
 TISSUB-Umbilical artery;

MEDLINE-20379035; PubMed-10823842; DOI=10.1074/jbc.M910099199;

de Vries C.J.M., van Achterberg T.A.E., Horrevoets A.J.G.,

ten Cate J.W., Pannekoek H.;

"Differential display identification of 40 genes with altered expression in activated human smooth muscle cells. Local expression atherosclerotic lesions of smags, smooth muscle activation-specific
 COMPBIAS
COMPBIAS
CARBOHYD
VARSPLIC
 Imamura T.;
An alternatively-spliced translates into a partial activity.";
Submitted (JUL-1998) to th
 GO; GO:0005615; C:extracellular space; TAS. GO; GO:0008283; P:cell proliferation; TAS. GO; GO:0007267; P:cell-cell signaling; TAS. GO; GO:000843; P:fibroblast growth factor GO; GO:0007399; P:neurogenesis; TAS.
 EMBL; M37825; AAB66463.1; -; mRNA.

EMBL; M23336; AAB66699.1; -; Genomic_DNA.

EMBL; M23334; AAB66699.1; JOINED; Genomic_DNA.

EMBL; M23535; AAB66699.1; JOINED; Genomic_DNA.

EMBL; M23535; AAB66699.1; ALT_SEQ; Genomic_DNA.

EMBL; M23534; AAB66698.1; -; mRNA.

EMBL; AB616517; BAA33738.1; -; mRNA.
 This Swiss-Prot entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the El the European Bioinformatics Institute. There are no resti
 genes.
 CHAIN
 use as
 J. Biol.
 NUCLEOTIDE
 Proto-oncogene;
SIGNAL 1
 VARSPLIC
 Pfam; PF00167;
 InterPro;
 HSSP;
 PIR; A31194; TVHUF5.
 removed
 InterPro;
 Name=Short; Synonyms=FGF-5S;
IsoId=F12034-2; Sequence=VSP 001518, VSP 001519;
SIMILARITY: Belongs to the heparin-binding growth factors family.
 Biol. Chem. 275:23939-239
FUNCTION: This oncogene
transform NIH 3T3 cells.
ALTERNATIVE PRODUCTS:
 Event=Alternative splicing; Named
 165190;
 P08620; 11JT
 IsoId=P12034-1; Sequence=Displayed;
 HGNC:3683; FGF5
 long as its content is in no
 ENSG00000138675;
 IPR002209; GF heparin_bd.
IPR002348; IL1_HBGF.
 Suzuki S.,
 (JUL-1998) to the EMBL/GenBank/DDBJ databases
 SEQUENCE (ISOFORM SHORT)
 268
 18
49
55
110
 124
 83
83
 275:23939-23947 (2000) .
 FGF;
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268
52
62
110
123
 268
 Asada
 agonist/antagonist
 FGF-5 mRNA
 Homo sapiens
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N-linked (GlCNAC...) ((
N-linked (GlCNAC...) ((
VLET -> QVHR (in isoform
/FITId=VSP 001518.
Missing (In isoform Short
/FITId=VSP 001519.
R -> I (in Ref. 1).
PSGR -> LGA (in Ref. 2).
W; 08F4268B26781E9D CRC64
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 Poly-Ser.
Poly-Ser.
 Fibroblast
 Potential.
 Tomooka Y.,
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tagonist for
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 Li A.,
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MBL outstation -
 Komi A.,
 outstation
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 16
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Local Similarity

88.4%;

Pred. No. 9.9e-22

.9e-223

Length

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RESULT 3

QRNBGG_HUMAN
ID QRNBGG_HUMAN P
AC QRNBGG HUMAN P
AC QRNBGG |
DT 01-CCT-2002 (T
DT 01-CCT-2004 (T
DE Hypothetical p
OS Homo sapiens (
OC Eukaryota; Met
OC Mammalia; Euith
RA Vammazaki M., N
RA Fujimori K., T
RA Inhida S., San
RA Nomura Y., Tog
RA Indee N., Musa
RA Nomura Y., Tog
RA Moriya S., Mon
RA Matsumura K., R
RA Ono T., Yamada
RA Nakai K., Yadda
RT Togashi T., No
RA Matsumura K., Na
RA Matsumura K., Na
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RA Matsumura K., Na
RA Matsumia Suga
RA Nakai K., Yadda
RT Togashi S., Na
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RA Nakai K., Yadda
RT Togashi S., Na
RA Nakai K., Yadda
RT TOGNBHES
DR EMBL, AK090557
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DR FAMB, PF00167;
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 RA Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H.,
RA Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S.,
RA Yamamoto J.-I., Saito K., Kawai Y., Isono Y., Nakamura Y.,
RA Yamamoto J.-I., Saito K., Yasuda T., Iwayanagi T., Wagatsuma M.,
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RA Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M.,
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RA Ishida S., Ono Y., Takiguchi S., Watanabe M., Hiraoka S., Chiba Y.,
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RA Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H.,
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RA Yamazaki M., Watanabe T., Sugiyama A., Takemoto M., Kawakami B.,
RA Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y.,
RA Pujinori Y., Komiyama M., Tashino H., Tanigami A., Pujiwara T.,
RA Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S.,
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RA Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K.,
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RA Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.,
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RA Nakai R., Satoh T., Satoh T., Shigeta K., Sasaki
 Query Match
Best Local Sim
Matches 237;
 01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein FLJ33238.
Homo sapiens (Human)
 Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T.,
 EMBL; AK090557; BAC
HSSP; Q02195; 1QQK.
GO; GO:0008083; F:g
 "Complete sequencing cDNAs.";
 181
 121
 121
 181
 61
 61
 μ
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPRGSSSRQSSSSAMSSSSAS
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRPKQSEQPELSPTVTVPEKK 237
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR 180
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
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 SEQUENCE
 Conservative
 36:40-45(2004).
557; BAC03477.1; -;
 PRELIMINARY;
 DOI=10.1038/ng1285;
 Chordata; Craniata; Vertebrata; Euteleostomi; Euarchontoglires; Primates; Catarrhini; Hominidae;
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 Indels
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 Gaps
 120
 120
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 60
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FGF5 MOUSE
ID FQF5 MOUSE
STANDARD;
PRT; 264
AC P15656; O88825;
DT 01-APR-1990 (Rel. 14, Created)
DT 01-APR-1990 (Rel. 14, Last sequence upda
DT 13-SEP-2005 (Rel. 48, Last annotation up
E Thoroblast growth factor 5 precursor (FG
GN Name=Fgf5; Synonyms=Fgf-5;
OS Mus musculus (Mouse).
OC Musmalia; Eucheria; Euarchontoglires; Gl
OC Muroidea; Muridae; Murinae; Mus.
 RESULT 4
Q6A549 HUMAN
ID Q6A549;
AC Q6A549;
DT 25-OCT-2
DT 25-OCT-
 S
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 8 R R R S
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 Query Match
Best Local Similarity
Matches 125; Conserv
 Matches 119;
 Query Match
Best Local Similarity
 Nakakuki T., Ueba T.;
Submitted (FBB-2001) to the EMBL/GenBank/DDBJ
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GO; GO:0008083; F:growth factor activity; IEA.
InterPro; IPR002348; IL1_HBGF.
Pfam; PF00167; FGF; 1.
ProDom; PD00031; IL1 HBGF; 1.
SEQUENCE 129 AA; 13509 MM; 98C791EB4A754E
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 PRINTS; PR00262; IL1HBGF.
ProDom; PD000831; IL1 HBGF;
SMART; SM00442; FGGF; T
PROSITE; PS00247; HBGF FGF;
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 Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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 NUCLEOTIDE SEQUENCE.
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 121
 264
 204
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(FGF-5)
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 (HBGP-5)
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Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 "An alternatively spliced fibroblast growth factor (FGF)-5 mRNA is abundant in brain and translates into a partial agonist/antagonist FGF-5 neurotrophic activity."; J. Biol. Chem. 273:29262-29271(1998).
 MEDLINE=99003286; PubMed=9786939; DOI=10.1074/jbc.273.44.29262; Ozawa K., Suzuki S., Asada M., Tomooka Y., Li A.J., Yoneda A., Komi A., Imamura T.;
 MEDILINE=90201563; PubMed=2318343; MEDILINE=90201563; PubMed=2318343; Hebert J.M., Basilico C., Goldfarb M., Haub O., Martin G.R.; "Isolation of cDNAs encoding four mouse FGF family members and characterization of their expression patterns during embryogenesis.";
 NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA] (ISOPORM LONG).
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 Proc. Natl. Acad. Sci. U.S.A. 87:8022-8026(1990)
 MEDLINE=91045929; PubMed=1700424;
 Birney E., Hayashizaki Y.; "Analysis of the mouse transcriptome
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 Haub O., Drucker B., Goldfarb M.;
"Expression of the murine fibroblast growth factor 5
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 full-length cDNAs.";
420:563-573(2002).
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 (ISOFORM LONG).
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 SEQUENCE
 This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
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118
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17
1 17
8 264
5 59
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 Gaps
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(HBGF-5).

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SIGNAL 1 17

CHAIN 18 266

COMPBIAS 54 59

CARBOHYD 108 108

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ALBERBI. 1.
AC CANIS.
AC
 RESULT 8
Q6XK01 RABIT
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AC Q6XK01;
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DT 05-UUL-2004 (TremBirel. 27, CDT 05-UUL-2004 (TremBirel. 27, LDT 05-UU
 SET TRACTOR OCCOORDINATE OCCOOR
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 Matches
 Query Match
Best Local Similarity
Query Match
Best Local Similarity
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NON TER
NON TER
SEQUENCE
 Name=FGF5;
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Cartright JAN-2002) to the EMBL/GenBank/DDBJ databases.

Submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases.

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SMR; Q8SQ73; 163-223.
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Canis familiaris (Dog).
Canis familiaris (Dog).
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Submitted (FEB-2003) to the E
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as its content is in no way modified and this statement

SIMILARITY: Belongs to the heparin-binding growth factors family.

IsoId=P48807-1; Sequence=Displayed;
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Name=Long;

Event=Alternative splicing; Named isoforms=2;

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MEDLINE=96201703; PubMed=8611621; DOI=10.1016/0167-4781(19)60001-1; Hattori Y., Yamasaki M., Itoh N.; "The rat FGF-5 mRNA variant generated by alternative splicing encodes a novel truncated form of FGF-5."; Biochim. Biophys. Acta 1306:31-33(1996).

NUCLEOTIDE SEQUENCE (ISOFORMS LONG AND SHORT) STRAIN=Wistar;

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Matches

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Query Match
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05-JUL-2004 (TrEMBLrel. 2
Fibroblast growth factor
 Oryctolagus
 Oryctolagus cuniculus (Rabbit).
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 "Danio rerio fibroblast growth factor 5 (fgf5) mRNA.";
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 Mismatches
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 29;
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 225
 59
 79
 DB 2;
 99
 Vertebrata; Euteleostomi;
Ostariophysi; Cypriniformes;
 92
 3.5e-20;
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Wincker P., Lander E.S., Weissenbach J., Roest Crollius H.;
"Genome duplication in the teleost fish Tetraodon nigroviridis reveals
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RA Nature 431:946-957(2004).
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 NUCLEOTIDE SEQUENCE.
Genoscope; Whitchead Institute Centre for Genome Research;
Submitted (FEB-2004) to the EMBL/GenBank/DDBJ databases.
-i- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry whi
 NUCLEOTIDE SEQUENCE
 NCBI_TaxID=99883;
 ORFNames=GSTENG00030976001;
 Chromosome 12
 SEQUENCE
 Growth
 PROSITE; PS00247; HBGF_FGF; Growth factor.
 13-SEP-2005 (TrEMBLrel. 31, Cre
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13-SEP-2005 (TrEMBLrel. 31, Las
Chromosome 12 SCAP15007, whole
 PROSITE;
 ProDom; PD000831; IL1 HBGF;
SMART; SM00442; FGF; 1.
 preliminary data.
; CAAE01015007; CAG09626.1; -;
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 21;
 factor.
E 225 AA;
 Similarity
 PS00247; HBGF_FGF;
 DDCKFRERFQENSYNTYAS
 FTDDCKFRERFQENSYNTYAS
 FTDDCKFRERFQENSYNTYAS
 DDCKFRERFQENSYNTYAS
 IPR002209; GF_heparin
IPR002348; IL1_HBGF.
0167; FGF; 1.
 230 AA;
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26100 MW;
 25933 MW;
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 7.8%;
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Last annotation update)
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0; Mismatches
 Score 21;
Pred. No.
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 42BB6EDCE908ECOA CRC64;
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 329EAEDBE071308C CRC64;
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DT 01-JAN-1
DT 01-JAN-2
DT 10-MAY-2
DT 10-MAY-2
DT 10-MAY-2
OC Saccharc
OC Saccharc
OC NCBI Tax
RN NUCLEOTI
RX MEDLINE-
RA Johnston
RA Ansorge
RA Johnston
RA Heumann
RA Koetter
RA Moester
RA Wambutt
RA Schwarz
RA Verhasse
RA Wambutt
RA Hani J.,
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MEDLINE=97313267; PubMed=9169871;

MEDLINE=97313267; PubMed=9169871;

A JOHNSTON M., Hillier L.W., Riles L., Albermann K., Andre B.,

A Ansorge W., Benes V., Brucckner M., Delius H., Dubois B.,

A Ansorge W., Benes V., Brucckner M., Goffeau A., Hebling U.,

A Heumann K., Heuss-Neitzel D., Hilbert H., Hilger F., Kleine K.,

Koetter P., Louis E.J., Messenguy F., Mewes H.-W., Miosga T.,

A Koetter P., Louis E.J., Messenguy F., Mewes H.-W., Miosga T.,

A Moestl D., Mueller-Auer S., Nentwich U., Obermaier B., Piravandi I.

A Moestl D., Mueller-Auer S., Nentwich U., Obermaier B., Fisquer M.,

A Rinke M., Rose M., Scharfe M., Scherens B., Scholler P., Schwager A., Schwarz S., Underwood A.P., Urrestarze L.A., Vandenbol M.,

A Verhasselt P., Vierendeels F., Voet M., Volckaert G., Voss H.,

A Wambutt R., Wedler E., Wedler H., Zimmermann F.K., Zollner A.,

A Hani J., Hoheisel J.D.;
 013543 YEAST PRELIMINARY;
013543;
01-JAN-1998 (TrEMBLrel. 05,
01-JAN-1998 (TrEMBLrel. 05,
10-MAY-2005 (TrEMBLrel. 30,
 Cartwright J.M.;
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AF453760; AAL50825.1; -; Genomic_DNA.
HSSP; P08620; IJJT.
Ensembl; ENSCAFG00000008885; Canis familiaris.
Ensembl; ENSCAFG00000008885; Canis familiaris.
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Q8WN07;
Q1-MAR-2002 (TrEMBLrel. 2)
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NON TER 1 1
NON TER 87 87
SEQUENCE 87 AA; 8491 MW; 9
 01-MAR-2002 (TrEMBLrel. 2
01-MAR-2002 (TrEMBLrel. 2
01-OCT-2003 (TrEMBLrel. 2
Fibroblast growth factor
 Saccharomyces cerevisiae (Baker's yeast).
Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
 Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canida
 Name=FGF-5
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 Y1r294cp (YLR294C)
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 94
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25,
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 (Fragment)
 Last sequence update)
Last annotation update)
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 Score 16;
Pred. No.
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 Mismatches
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 DB 2; Le
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 Length 87;
 Indels
 Hebling U.,
 Piravandi E.,
 Schwager
 Canidae;
 <u>,</u>
 Gaps
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Q7YOC1 ORYSA
ID Q7YOC1_ORYSA PRELIMINARY;
AC Q7YOC1;
DT 01-OCT-2003 (TrEMBLrel. 2)
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Matches 10
Query Match
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Matches 10; Conserv
 01-OCT-2003 (TrEMBLrel. 25, Creat 01-OCT-2003 (TrEMBLrel. 25, Last 01-MAR-2004 (TrEMBLrel. 26, Last Putative Dof zinc finger protein. Name=OSJNBa079B15.26;
 NUCLEOTIDE SEQUENCE.

Marsischky G., Rolfs A., Richardson A., Kane M., Baqui M., Thu Y., Vannberg F., Weger J., Kramer J., Moreira D., Kelley Zuo D., Raphael J., Hogle C., Jepson D., Williamson J., Cama Gonzaga L., Vasconcelos A.T., Simpson A., Kolodner R., Harlo LaBaer J.;
 Buell C.R., Yuan Q., Ouyang S., Liu J., Ganberger K., Jones K. Overton II L.L., Tsitrin T., Kim M.M., Bera J.J., Jin S.S., Overton D.W., Tallon L.J., Koo H., Zismann V., Hsiao J., Blunt Vanaken S.S., Riedmuller S.B., Utterback T.T., Feldblyum T.V., Yang Q.Q., Haas B.J., Suh B.B., Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.;
Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases.
 Oryza sativa (japonica cultivar-group).
Bukaryota; Viridiplantae; Streptophyta; Em
Spermatophyta; Magnoliophyta; Liliopsida;
Ehrhartoideae; Oryzeae; Oryza.
 Complete proteome. SEQUENCE 109 AA:
 Submitted (FEB-2004) to the EMBL/GenBank/DDBJ EMBL; U17243; AAB67352.1; -; Genomic DNA. EMBL; AY558218; AAS56544.1; -; Genomic_DNA.
 Pfam; PF02701; zf-Dof; 1.

PROSITE; PS01361; ZF_DOF_1;

PROSITE; PS50884; ZF_DOF_2;

SEQUENCE 349 AA; 35653 MM
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GO; GO:0003677; F:DNA binding;
 Submitted (JUN-2003) to the EMBL; AC099043; AAP50963.1;
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Buell R.;
 Submitted
 Cherry J
 Submitted
 Submitted (DEC-1994)
 NUCLEOTIDE SEQUENCE.
 NCBI_TaxID=39947;
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 Waterston
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 Local Similarity
 82
 N
 10;
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 (AUG-1997)
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 109 AA;
 Conservative 0;
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 Score 10; DB; Pred. No. 0.3
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 PRT;
 Mismatches
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0.33;
 Embryophyta; Tracheophyta; a; Poales; Poaceae;
 0.94;
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 Length 349;
 Length 109;
 Indels
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 Jones K.M.,
 Camargo A.,
 Taycher E.,
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RESULT 15

Q54TY7 DICDI PRELIMINARY;
AC Q54TY7, DICDI PREMBLrel. 31,
DT 13-SEP-2005 (TrEMBLrel. 31,
DC EMALYOCLE SEQUENCE.

RA MUCLEOTIDE SEQUENCE.
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RA Barbrother P. Desany B., J.
RA Pilcher K., Chen G., Saunder
RA Farbrother P., Desany B., J.
RA Pilcher K., Chen G., Saunder
RA Hauser H., James K., Quiles
RA Farbrother P., Desany B., J.
RA Mazny D., Mourier T., Pain Pain Parbrother M., Tolleged H., Mungall K., Jo
RA Muzny D., Wourier T., Pain Pain Parbrother M., Tolleged H., Mungall K., Jo
RA Wardroper A., Felder M., Tolleged H., Mungall K., Jo
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RA GOOD S., White B., Walker
RA GERMAN J., JA
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 RA Bichinger L., Pachebat J.A., Gloeckner G., Rajandream M.-A., Bichinger L., Pachebat J.A., Gloeckner G., Rajandream M.-A., RA Sucgang R., Berriman M., Song J., Olsen R., Szafranski K., Xu Q., RA Tunggal B., Kummerfeld S., Madera M., Konfortov B.A., Rivero F., Ra Fulcher R., Lehmann R., Hamlin N., Davies R., Gaudet P., Fey P., RA Filcher K., Chen G., Saunders D., Sodergren E., Davis P., RA Filcher K., Chen G., Saunders D., Sodergren E., Davis P., RA Filcher C., Hemphill L., Bason N., RA Farbrother P., Desany B., Just E., Morio T., Rost R., Churcher C., RA Cooper J., Haydock S., van Driessche N., Cronin A., Goodhead I., RA Cooper J., Haydock S., van Driessche N., Cronin A., Goodhead I., RA Muzny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R., RA Muzny D., Mourier T., Pain A., Lu M., Harper D., Lindsay R., RA Muzny D., Mourier T., Pain A., Lu M., Harper D., Knights A., Collseged H., Mungall K., Oliver K., Price C., Quall M.A., Urushihara H., Hernandez J., Rabbinowitsch E., Steffen D., Sanders M., Winshihara H., Hernandez J., Rabbinowitsch E., Steffen D., Sanders M., Spiegler S., Tivey A., RA Sugano S., White B., Walker D., Woodward J., Winckler T., Tanaka Y., RA Sugano S., White B., Walker D., Woodward J., Winckler T., Tanaka Y., RA Sugano S., White B., Walker D., Woodward J., Winckler T., Tanaka Y., Chisholm R.L., Gibbs R., Loomis W.F., Platzer M., Kay R.R., Chisholm R.L., Gibbs R., Loomis W.F., Platzer M., Kay R.R., Williams J., Dear P.H., Noegel A.A., Barrell B., Kuspa A.; "The genome of the social amoeba Dictyostelium discoideum."; RL Leithinary date G. C. Chullon. The sequence shown here is derived from an EMBL/GenBank/DBG whole genome shotgun (WGS) entry which is C.C. Parellminary date
 Query Match
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Matches 10; Conserv
 13-SEP-2005 (TrEMBLrel. 31, Created)
13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
13-SEP-2005 (TrEMBLrel. 31, Last amnotation update)
13-SEP-2005 (TrEMBLrel. 31, Last amnotation update)
MADS-box transcription factor.
Name=srfA; ORFNames=DDB0214892;
Dictyostelium discoideum (Slime mold).
Dictyostelium discoideum (Slime mold).
 EMBL; AAFI01000074; EAL66675.1; -; Genomic_DNA.
G0; G0:0005634; C:nucleus; IEA.
G0; G0:0003700; F:transcription factor activity; IEA.
G0; G0:0006355; P:regulation of transcription, DNA-dependent; IEA.
DNA-binding; Nuclear protein; Transcription; Transcription regulat
SEQUENCE 418 AA; 47546 MW; 8C86042A75C82D8A CRC64;
 249
 388 ŚŚŚŚŚŚŚPA 397
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Result
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 Scoring table:
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 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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 Length
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AAW75715
 SUMMARIES
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Biocceleration Ltd.
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Ad032034 Fibroblas
Ad820334 Fibroblas
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Aay31793 Human fib
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Ada95451
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FGF5 problas
Human fib
Fibroblas
Fibroblas
Human ker
Human hep
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AABO0642<br>AAY07858<br>ABG72116<br>ABG72719<br>AAP0264<br>AAR48064<br>AAW22600<br>AAB50709<br>AAB50709<br>AAB5077<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB50277<br>AAB502773                                                                                                                                               | AAB00642 AAY87858 ABG74160 ABG72719 AAP82964 AAW22600 ABB50709 AAB50709 AAB50709 AAB50709 AAB50777 AAB50277 AAB50277 AAB50277 AAB50277 AAB50277 AAB50277 AAB99124 ADM94750 AAB00637 AAR75703 AAY87852 AAY87852 AAY8785334 AAW53031 AAW53031 AAW53031 AAW53031 AAW578785                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 268      | 266      | 266      | 266      | 268      | 176      | 267      | 267      | 267      | 267      | 267      | 267           | 267      | 267      | 267      | 267      | 266      | 266      | 266      | 268      |
| AABOO642 AAY87858 ABG721160 ABG72719 AAAP82964 AAAW22600 AAB50709 AAB500645 AAAB50277 AAAB50277 AAAB50277 AAAB50277 AAAB99124 ADM94750 AAB69124 AAAB99124                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                   | Aae00642<br>Aay87858<br>Abg74165<br>Abg72719<br>Abg82964<br>Aar480664<br>Aaw22600<br>Aab50709<br>Aac18810<br>Aab50277<br>Aac18810<br>Abb91277<br>Aac18810<br>Abb91277<br>Aar75703<br>Aay87852<br>Abg72713<br>Aaw53031                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N        | 0        | 0        | w        | N        | 4        | œ        | σ        | v        | 4        | 4        | 4             | 4        | N        | N        | 1        | σ        | 0        | w        | 4        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Aae00642 Abg72150 Abg72160 Abg727719 Aap82964 Aar48064 Aar48064 Aae22660 Aab650709 Aab50277 Aae106455 Aag65651 Aag65651 Aag6700637 Aae715703 Aae715703 Aay87853 Aay87853                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | AAW53031 | ABG72713 | ABG73848 | AAY87852 | AAR75703 | AAE00637 | ADM94750 | ABB99124 | AAE18810 | AAB50277 | AAG65651 | AAE00645      | AAB50709 | AAW22600 | AAR48064 | AAP82964 | ABG72719 | ABG74160 | AAY87858 | AAE00642 |

## ALIGNMENTS

RESULT 1
AAR70813
ID AAR7

AAR70813 standard; protein; 268 AA

AAR70813;

25-MAR-2003 01-SEP-1995

(revised) (first entry)

FGF-5.

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EFFFXXXXX
 FFXGXGXGXGG
New monogenous preparations of cytotoxic conjugates and DNA -fibroblast growth factors and cytotoxic agents for treating RC conditions such as tumours, diabetes and rheumatoid arthritis
 Sosnowski BA,
 02-AUG-1993;
29-OCT-1993;
 Misc-difference
 Misc-difference 93
 Homo sapiens.
 WPI; 1995-082038/11.
 27-JUL-1994;
 09-FEB-1995.
 FGF-5; fibroblast growth factor; cytotoxic conjugate; fusion protein; saporin; cytostatic; tumor; diabetes; rheumatoid arthritis.
 WO9503831-A1.
 Misc-difference
 (PRIZ-) PRIZM PHARM INC.
 Lappi DA,
 93US-00099924.
93US-00145829.
 94WO-US008511.
 Location/Qualifiers
 202
/note= "Cys may be replaced by Ser"
 note= "Cys may be replaced
 note= "Cys may be replaced by Ser"
 Baird AJ;
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Novel fusion proteins comprise FGF linked to saporin. FGF-1 to -9 may

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FGF

Disclosure; Page 112; 128pp; English.

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 used, pref. FGF-1 (AAR70812), FGF-5 (AAR70813), FGF-7 (AAR70814) or FGF-8 (AAR70815) muteins, in which at least 1 Cys residue is replaced by conservative Ser substitutions. The fusion proteins are potent cytocidal agents to cells bearing the FGF receptor. (Updated on 25-MAR-2003 to correct PN field.)
 Conjugate; fibroblast growth factor; FGF; cytotoxin; saporin; eye; cell proliferation; regulation; pterygia; corneal clouding; cancer; psoriasis; rheumatoid arthritis.
AAR80776-84 are fibroblast growth factors (FGF) FGF-1 to FGF-9 respectively. DNA encoding these fibroblast growth factors can create an FGF/saporin fusion protein. DNA encoding such fusion
 New conjugates of growth factor receptor ligand and targetted partic. DNA or cytotoxin, used to control cell proliferation i e.g. to prevent growth of pterygii and corneal clouding.
 15-MAR-1994;
15-MAR-1994;
 AAR80780 standard;
 Sequence 268 AA;
 WPI; 1995-336820/43.
 21-SEP-1995
 WO9524928-A2
 Homo
 Fibroblast growth factor 5,
 13-MAY-1996
 15-MAR-1995;
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 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPBKKNPP
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
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 SPIKSKIPLSAPRKNINSVKYRLKFRFG 268
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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 PHARM INC.
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94US-00213447.
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 are useful for targetting saporin (a cytotoxin) to a cell carrying the FGF receptor. Targetted agents (TA) other than saporin which may be used include in partic. DNA encoding a therapeutic protein, antisense DNA or other cytotoxic agent. The linker sequence within the fusion protein may increases serum stability or intracellular availability of the TA. The conjugates of the invention are used to inhibit cell proliferation in cells carrying the particular growth factor receptor; also when TA is DNA it can be used to deliver this to cells (for gene therapy). A specific application is to prevent excessive proliferation of epithelial cells, fibroblasts and keratinocytes in the anterior eye after surgery, partic. to prevent recurrence of pterygil after surgical removal, closure of trabeculectomy after glaucoma surgery and corneal clouding after excimer laser treatment. Other conditions which may be treated include tumours,
 Sequence 268 AA;
 Fibroblast growth factor-5; FGF-5; mutein; protein engineering; heparin; thrombosis; thromocytopenia; ophthalmic disorder; human; therapy.
 AAW75715;
 AAW75715 standard;
 restenosis, psoriasis, Dupuytren's contracture, diabetic complications,
Kaposi's sarcoma and rheumatoid arthritis
 Misc-difference
 Misc-difference 169
 Misc-difference
 Fibroblast growth
 07-DEC-1998
 Misc-difference
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 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 MSLSFLLILFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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 /note= "Asn-169 may be replaced by (Claim 2), preferably Ala, Phe, Ser Tyr, especially Ala, Gly or Ser" 172
 Location/Qualifiers
 (Claim 3), preferably Ala, Phe,
Tyr, especially Ala, Gly or Ser
164
 (Claim 7),
 /note= "Phe-162 is replaced by another amino
(Claim 3), preferably Ala, Phe, Ser, Gly, Met
/note= "Agn-172 may be replaced
(Claim 1), preferably Ala, Phe,
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 protein;
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 "Glu-164 may be replaced by 7), preferably Ala, Gly or 8
 268
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 Score 268; DB 2; I
Pred. No. 8.6e-250;
 8
 Mismatches
 268
 Ser,
 by another amino ac
Ser, Gly, Met, Leu
 Length 268;
 y another .
Ser"
 Indels
 another amino acid
r, Gly, Met, Leu or
 Met,
 amino
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 acid acid
 Leu
 Gaps
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eu or
 acid
 or
 180
 120
 240
 180
 120
 60
 240
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RESULT 4
AAY08585
ID AAY0
XX
AC AAY0
AC AAY0
XX
DT 05-A
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 Query Match
Best Local S
Matches 268
 This is the amino acid sequence of fibroblast growth factor-5 (FGF-5). Claimed DNA molecules of the invention encode FGF mutein polypeptides (see AAW75711-20) that show reduced FGF receptor binding activity but which retain the ability to bind heparin. For FGF-5, amino acid residues 162, 169 and 172 are preferably replaced by other amino acid residues, with an optional further replacement of the Glu-164 residue. The mutein may be further modified by replacement of the Cys residues to reduce aggregation. The mutein is obtained by site-specific or site-directed mutagenesis of FGF-5 DNA, incorporation of the mutated DNA into a vector and expression in host cells. The FGF muteins are used to treat heparin-related disorders, such as excessive bleeding induced by heparin, ophthalmic disorders and heparin-associated thrombocytopenia and thrombosis. They may also be used for drug design
 Human FGF-5 protein fragment
 05-AUG-1999
 Sequence 268
 Disclosure; Page 55-56; 71pp; English.
 Fibroblast growth factor mutein and DNA - having reduced receptor binding and able to bind heparin, useful for treating and regulating heparin-related disorders e.g. thrombosis.
 WPI; 1998-495843/42
 03-MAR-1997;
 03-MAR-1998;
 W09839436-A2
 AAY08585 standard;
 (EISA) EISAI CO
 Local Similarity
 241
 241
 181
 181
 121
 121
 61
 61
 H
 \vdash
 Kalyanaraman R,
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGGLEQSSFQWSPSGRRTGSLYCRVG1GFHLQ1YPDGKVNGSHEANMLSV
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 Conservative
 B
 (first entry)
 97US-0040785P
 98WO-JP000878
 Tyr, especially Ala, Gly or Ser"
 protein; 268
 100.0%; Score 268; DB 2; 1 100.0%; Pred. No. 8.6e-250;
 Kawai
 0
 H
 Mismatches
 0
 Length 268;
 Indels
 0
 Gaps
 180
 240
 180
 120
 240
 60
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RESULT 5
AAY32337
ID AAY3
XX

AAY32337 standard; protein; 268

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 This invention describes a novel human fibroblast growth factor, PRO533, CC also known as fibroblast growth factor-19 (FGF-19). The nucleic acids, cc methods and PRO533 polypeptides disclosed may be used in the diagnosis and treatment of tumours and/or conditions characterized by modulation of PRO533 expression, or in the preparation of compositions for such the the properation of compositions for such cc therapies. These compositions and methods may be used in the diagnosis and treatment of neoplastic cell growth and proliferation in mammals (especially humans). The invention is based on the identification of genes that are amplified in the genome of tumour cells. Such gene camplification is expected to be associated with the over expression of the gene product and contribute to tumourgenesis and/or autocrine signalling. Accordingly, the proteins encoded by the amplified genes are believed to be useful targets for the diagnosis and/or treatment of certain cancers and may act as predictors of the prognosis for tumour
 Matches 268;
 Query Match
Best Local
 Sequence 268
 Nucleic acid encoding fibroblast growth factor diagnosis, prevention and treatment of cancers.
 PRO533; FGF-19; fibroblast growth factor; human; diagnosis; treatment; tumour; neoplastic cell growth; cell proliferation; tumorgenesis; cancer; autocrine signalling; FGF-5.
 Disclosure; Fig 11; 88pp; English.
 WPI; 1999-347718/29.
 Botstein D,
 25-NOV-1997;
21-SEP-1998;
 25-NOV-1998;
 03-JUN-1999
 WO9927100-A1.
 Homo sapiens.
 (GETH) GENENTECH INC
 Local Similarity
 241
 181
 181
 121
 121
 5
 61
 μ
 μ
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 LEI FAVSQGTVGI RGVF SNKFLAMSKKGKLHASAKFTDDCKFRER FQENS YNTYASA I HR
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHBANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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 Conservative
 Goddard
 A,
 97US-0066840P.
98US-00158342.
 98WO-US025190
 100.0%;
 P,
 Gurney AL,
 0,
 Score 268; DB 2;
Pred. No. 8.6e-250;
); Mismatches 0;
 Hillan KJ,
 ı
 Length 268;
 Lawrence DA,
 19, useful for the
 Indels
 0,
 Roy MA;
 Gaps
 180
 120
 240
 180
 120
 60
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 S
 This sequence represents human fibroblast growth factor 5 (FGF-5). The CC invention relates to isolated nucleic acids encoding FGF muttein CC polypeptides. FGF mutteins that exhibit increased binding affinity for FGF CC receptors and reduced mitogenic activity are provided. Such muteins have amino acid replacements at positions corresponding to position 138 (claim CC 1) of FGF-2 (see AAY3234). They can be used to prevent or inhibit the CC undesired growth and proliferation of FGF-responsive cells. Such cells CC cell proliferation, such as rheumatoid arthritis, tumour angiogenesis, CC (Kaposi's sarcoma, restenosis, in-stent restenosis, certain ophthalmic CC disorders and dermatological disorders, such as psoriasis. Also provided are FGF muteins that exhibit reduced receptor binding activity, but CC replacements corresponding to positions 88 (Claim 5) and 93 (Claim 7) and CC metain the ability to bind heparin. These muteins have amino acid CC replacements corresponding to positions 88 (Claim 5) and 93 (Claim 7) and CC metain the ability to bind heparin. These muteins have amino acid CC replacements corresponding to positions 88 (Claim 5) and 93 (Claim 7) and CC metain the ability to bind heparin. These muteins have amino acid CC replacements corresponding to positions 88 (Claim 5) and 93 (Claim 7) and CC metain the special particular for CC heparin-associated bleeding, antagonises of heparin-induced angiogenesis, and for treating heparin-induced thrombocytopenia and thrombosis. In CC greferred muteins, the native FGF amino acid is replaced by Ala, Phe, CC Cys residues may also be substituted to reduced polypeptide aggregation
 Query Match
Best Local S
Matches 268
 Sequence
 Claim 1; Page 81-82; 93pp; English.
 15-APR-1999;
 04-NOV-1999.
 Misc-difference
 Misc-difference
 Key
Misc-difference
 Fibroblast growth factor 5; FGF-5; human; mutein; vascular disorder; smooth muscle condiferation; rheumatoid arthritis; tumour; angiogenesis; Kaposi's sarcoma; restenosis; ophthalmic disorder; psoriasis; coagulant; heparin; thrombosis; thrombocytopenia.
 28-FEB-2000
 AAY32337;
 WO9955861-A2
 (EISA)
 polynucleotides encoding fibroblast growth atment of ophthalmic disorders, tumorigenic
 Ή
 2000-062030/05
 sapiens
 fibroblast
 al Similarity
268; Conser
 Kalyanaraman
 268
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 Conservative
 (first entry)
 $
 8
 99WO-JP002013
 214
 /note= "replaced with mutein of Claim 7"
 161
 /note= "replaced with another amino mutein of Claim 5"
 Location/Qualifiers
 /note= "replaced with another
mutein of Claim 1"
 growth
 100.0%;
 factor
 Score 268; DB 3;
Pred. No. 8.6e-250;
Mismatches 0;
 <u>ب</u>
 another
 amino
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 factor muteins used disorders and rester
 Length 268;
 acid
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 claimed
 restenosis.
 Gaps
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 15-MAR-1994;
15-MAR-1994;
29-AUG-1994;
13-SEP-1994;
The invention relates to a novel gene delivery composition for the targetted delivery of cytotoxins or prodrug-converting enzymes to proliferating cells. The gene delivery composition comprises a protein that binds the fibroblast growth factor receptor (FGPR) which is fused or chemically conjugated to a nucleic acid binding domain. The nucleic acid binding domain is complexed with a suitable expression construct encoding a cytotoxin such as saporin. One or more linkers may join the FGPR-binding protein to the nucleic acid binding protein. These are selected to increase the specificity, toxicity, solubility, serum stability or intracellular availability, and may serve to promote condensation of nucleic acids for delivery to a cell. The fusion protein binds to FGPR and is internalised by cells that carry this receptor. The gene delivery
 Targetted gene delivery; fibroblast growth factor receptor; FGFR-Dinding protein; FGF-2; bFGF; nucleic acid binding protein; receptor-internalised ligand; cytotoxin; saporin; gene therapy; cytocide; antiproliferative; cancer; melanoma; diabetic retinopathy; rheumatoid arthritis; restenosis, Dupuytren's contracture; psoriasis;
 Gene delivery system, useful for treating or preventing cancer and rheumatoid arthritis, comprises receptor-internalized ligand linked nucleic acid binding domain and nucleic acid.
 14-MAR-2000.
 US6037329-A.
 FGF-5, SEQ
 AAY90414
 Claim
 24-SEP-1996;
 Unidentified
 16-MAY-1995;
 (SELE-)
 241
 181
 121
 241
 181
 121
 5
 61
 SELECTIVE GENETICS INC
 Ę
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 standard;
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPANSLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 C_C
 ID NO:14.
 (first entry)
 103-104; 131pp; English.
 94US-00213446.
94US-00213447.
94US-00297961.
94US-00305771.
95US-00441979.
 Sosnowski
 96US-00718904.
 protein;
 BA,
 Baird
 268
 268
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 240
 180
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 120
 120
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**1**:4

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RESULT 7

AAE00636

ID AAE0

XX AAE0

XX AAE0

XX HAMB

DH HAMB

XX HAMB

XX FELB

DK FELB

XX FELB

XX FELB

XX FELB

XX FELB

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 Matches 268;
 Query Match
Best Local :
 composition is used for the therapeutic alteration of the function, gene expression and viability of cells. In particular, it may be used for the treatment and prevention of cell proliferative disorders, for example after eye surgery, melanoma and many other sorts of cancer, rheumatoid arthritis, restenosis, Dupuytren's contracture, diabetic retinopathy, psoriasis and eczema. The gene delivery compositions of the invention have high specificity for particular cells and can deliver larger amounts of DNA compared to prior art methods. Sequences AAY90410- AAY90418 represent members of the fibriblast growth factor (FGF) family of proceins. AAY90448 represents wild-type human FGF-2 (basic FGF, bFGF) which is encoded by AAA12868 AAA12897-AA12900 encode the human FGF-2 muteins AAY90461-Y90464, and AAY90465-Y90466 represents a mutagenised FGF-2 muteins used in the invention. AAY90450 represents a mutagenised
 Human; fibroblast growth factor-5; FGF-5; neoplasm; cytostatic; RCC; renal cell carcinoma; immunomodulator; gene therapy; carcinoma; brea prostate; bladder; pancreas; TAA; tumour associated antigen; MUSFGF-horseshoe kidney; Hippel-Lindau disease; acquired renal cystic disea
 Region
 Human MUSFGF5A protein of second open reading frame
 02-JUL-2001
 AAE00636 standard;
 Sequence 268 AA;
 02-OCT-1999;
 Homo
 29-SEP-2000;
 WO200125271-A2
 (USSH) US DEPT HEALTH & HUMAN SERVICES.
 C-terminus
 sapiens
 181
 181
 121
 121
 241
 polycystic kidney disease
 61
 61
 _
 Similarity
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGPHLQIYPDGKVNGSHEANWLSV
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANWLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 MSLSFILLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 100.0%; Score 268; DB 3; 1 ilarity 100.0%; Pred. No. 8.6e-250; Conservative 0; Mismatches 0;
 (first entry)
 2000WO-US026689
 99US-0157103P
 Location/Qualifiers
161. .220
 protein;
 . 220
 Immunogenic_epitope
 8
 Length 268;
 Indels
 0;
 breast;
 240
 180
 120
 240
 60
 0
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Query Match

Length 268;

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CC The present invention relates to a method for treating a subject having CC neoplasm expressing fibroblast growth factor-5 (FGF-5) comprises CC modulating an immune response to FGF-5 expression or activity. FGF is a tumour associated antigen (TAA). The method is useful for CC treating or preventing a neoplasm such as prostate carcinoma, breast CC carcinoma, bladder carcinoma, pancreas carcinoma, and renal cell CC carcinoma (RCC) and disease such as Hippel-Lindau disease, horseshoe kidneys, adult polycystic kidney disease and acquired renal cystic CC disease. FGF-5 polypeptides may be used as immunosen in the production of CC disease. FGF-5 polypeptides may be used as immunosessys that determine CC concentrations of antigen-bearing substances in biological samples, and CC (semi-) quantitatively identify the presence of antigen in a biological cample. The antibodies may also be used to treat FGF-5 expressing or CC coverexpressing tumours by decreasing FGF-5 activity, as diagnostic agents CC to monitor the progression or regression of an FGF-5 expressing or coverexpressing tumour in a patient undergoing therapy for the treatment of neoplasm. FGF-5 cDNA is also useful in gene therapy. The present
 Treating a subject having a neoplasm expressing fibroblast growth factor-5 (FGF-5), e.g. prostate, breast, bladder, or pancreas carcinoma, comprises modulating an immune response to FGF-5 or modulating FGF-5 expression or activity.
Sequence
 Claim 7; Page 87-88; 101pp; English.
 N-PSDB; AAD03934.
 Hanada K,
 MUSFGP-5A cDNA
 2001-290607/30
 268
 Yang
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 Matches
 Match 100.0%;
Local Similarity 100.0%;
Les 268; Conservative 0
 241
 181
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 1 MSLSFLLLLEFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 SPIKSKI PLSAPRKNINSVKYRLKFRFG
 SSPAASIGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
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 TEXTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 LBIFAVSQGTVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHBANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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 0
 Score 268; DB 4;)
Pred. No. 8.6e-250;
); Mismatches 0;
 Indels
 0
 Gaps
 180
 180
 120
 60
 240
 120
 60
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RESULT 8
AAE04405
ID AAE0
XX AAE0
XX AAE0
XX AAE0
XX DT 04-S
XX
DT Huma
XX Huma
XX Huma
XX Vasso
KW Vasso
Human; zFGF10; fibroblast growth factor-5; FGF-5; antiatherosclerotic; vasotropic; anorectic; antipsoriatic; antidiabetic; cerebroprotective; cytostatic; vulnerary; diabetes mellitus; amyotrophic lateral sclerosi
 04-SEP-2001
 AAE04405
 Human
 fibroblast growth factor-5
 standard;
 (first entry
 protein;
 (FGF-5).
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The present sequence is fibroblast growth factor-5 (FGF-5) from human. CC This protein is a member of the FGF family. The present invention relates CC to novel human zFGF10 protein and its DNA. zFGF-10 is a homologue of CC fibroblast growth factor (FGF). The zFGF10 sequences and their antibodies CC are useful for identifying and isolating neuronal, prostatic and CC generatic cell proliferation. They are used in the treatment of CC disorders associated with diabetes mellitus, neural cell development or CC degeneration, amyotrophic lateral sclerosis, cerebro- vascular stroke, CC neuropathy associated with lack of maintenance of neuronal neuropathy associated with lack of maintenance of neuronal development. zFGF-10 sequences are used for promoting CC complications related to poor circulation such as diabetic foot ulcers, CC for stroke, following coronary reperfusion and for improving cardiac CC function. They are used to protect and promote the recovery of the mucosa after treatment with chemotherapy and/or radiation and to reduce cells, particularly in the heart or brain. They are also used for the events, particularly in the heart or brain. They are also used for the cevents, particularly in the heart or brain. They are also used for the cells, epidermal cells or keratimocytes and pulmonary hypertension. CC cells, epidermal cells or keratimocytes. The zFGF-10 antagonists are used CC to treat psoriasis associated with keratinocyte. zFGF-10 binding proteins cc useful for treating neuroblastoma, glioblastoma, prostatic carcinoma and pancreatic carcinoma
 therapy; cerebrovascular stroke; neuropathy; angiogenesis; wound healing; revascularisation; diabetic foot ulcer; stroke; coronary reperfusion; ischaemia; hypertension; psoriasis; neuroblastoma; glioblastoma; carcinoma; prostatic hypertrophy.
 Sequence 268
 Disclosure; Page 59-60; 62pp; English
 Novel fibroblast growth factor homolog, zFGF10, useful for treating psoriasis, stimulating proliferation of mesenchymal cells, keratino in culture, promoting wound healing of epidermis, improving cardiac
 WPI; 2001-418223/44.
 28-DEC-2000; 2000WO-US035581.
 WO200147957-A2
 Homo sapiens.
 (ZYMO) ZYMOGENETICS INC
 Local Similarity
121
 121
 61
 61
 r
 MSLSFILLLFFSHLILSAWAHGEKRLAPKGOPGPAATDRNPIGSSSROSSSSAMSSSSAS
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 Conservative
 99US-00474279
 100.0%;
 0
 Score 268; DB 4;
Pred. No. 8.6e-250;
 Mismatches
 Length 268;
 Indels
 keratinocytes
 0
 120
 60
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RESULT 9
AAB50701
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 Query Match
Best Local S
Matches 268
 Human; fibroblast growth factor 11; FGF-11; cancer; autoimmune disorder; hyperproliferative disorder; cardiovascular disorder; anglogenesis; wound healing; neurological disease; infection.
 The present invention provides the protein and coding sequences for human fibroblast growth factor 11 (FGF-11). These sequences can be used in the diagnosis and treatment of infections, cancer, autoimmune disorders, hyperproliferative disorders, cardiovascular disorders and neurological diseases, to prevent angiogenesis and to aid wound healing
 Polynucleotide encoding human fibroblast growth factor 11, useful diagnosis, treatment and prevention of cancer, immune disorders, cardiovascular disorders and neurological diseases.
 AAB50701
 Sequence
 Disclosure; Page 243-244; 250pp; English.
 16-MAY-2000; 2000WO-US013331.
 30-NOV-2000
 WO200071715-A1
 Homo sapiens.
 20-MAR-2001
 AAB50701;
 (HUMA-) HUMAN GENOME SCI INC
 Local Similarity
 181
 181
 181
 121
 121
 Ş
 fibroblast
 61
 61
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 standard;
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAWSSSSAS
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANWLSV
TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 Alderson R,
 Conservative
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 99US-0135524P
 growth factor 5
 100.0%;
 protein;
 RGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
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 Score 268; DB 4; 1
Pred. No. 8.6e-250;
0; Mismatches 0;
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 The invention provides a human fibroblast growth factor (FGF)-23 polypeptide. The encoding DNA insert is contained in ATCC Deposit No. PT. 1617. FGF-23 can be expressed by standard recombinant methodology. The FGF-23 polypeptides, polynucleotides, modulators and antibodies are useful for treating, preventing, or ameliorating an FGF-23 polypeptide-related disease, condition or disorder especially autosomal dominant hypophosphatemic rickets (ADHR). They are also useful for diagnosing a pathological condition and for stimulating angiogenesis, promoting wound healing and treating disorders of the liver. Sequences AABS-812-29
 15-FEB-2000; 2000US-0182442P.
20-APR-2000; 2000US-0198903P.
15-FEB-2001; 2001US-00784581.
 WO200161007-A2
 Fibroblast growth factor; FGF; FGF-23; osteopathic; vulnerary; ADHR; hepatotropic; autosomal dominant hypophosphatemic rickets; human; angiogenesis; gene-therapy; liver disorder; antisense-therapy.
 Human fibroblast growth factor (FGF)-5
 AAB85816 standard; protein; 268
 Sequence 268 AA;
 An isolated nucleic acid molecule encoding a fibroblast growth factor useful for treating autosomal dominant hypophosphatemic rickets.
 WPI; 2001-514774/56.
 Luethy R,
 15-FEB-2001; 2001WO-US004778
 23-AUG-2001
 represent human FGF protein sequences used for comparison studies with
 Example 1;
 (AMGE-) AMGEN INC.
 Local Similarity
 241
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 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 MSLSFILLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASIGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
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Pred. No. 8.6e-250;
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The invention discloses a gene delivery composition comprising a collect acid molecule. The nucleic acid molecule is chemically conjugated or fused to the polypeptide that binds to an FGF receptor. The delivery composition binds to an FGF receptor and is internalised specifically in cells bearing the FGF receptor. The invention relates to the treatment (e.g. gene therapy) of diseases (e.g. hyperproliferative disorders and complastic diseases) and, more specifically to the preparation and use of complexes containing receptor-binding internalised ligands, nucleic acid binding domain (NABD) and cytocide-encoding agents to alter the complexes containing receptor-binding internalised ligands, nucleic acid binding domain (NABD) and cytocide-encoding agents to alter the complexes containing receptor-binding internalised ligands, nucleic acid molecule is a prodrug-encoding agent the alter the complexes are altered in an activating protein, preferably a saporin, gelonin or diptheria toxin. It also encodes its elongation factor and further comprises a tissue-specific promoter operably linked to the molecule. The prodrug-encoding agent encodes a tissue-specific promoter operably linked to the molecule. The prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes a prodrug-encoding agent encodes and proprecipitation factor and further comprises a tissue-specific promoter operably linked to the molecule. The prodrug-encoding agent encodes are proprecipitated and proprecipitate prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prodrug-encoding agent encodes are prod
 hyperproliferative disorder; neoplastic disease; ligand; nucleic acid binding domain; NABD; cytocide; therapeutic; prodrug; ribozyme; antisense; ribosome inactivating protein; saporin; gelonin; diptheria toxin; elongation factor 2; HSV thymidine kinase; cytosine deaminase; human; FGF-5.
 Human fibroblast growth factor 5 (FGF-5) protein
 ADC34580
 ADC34580;
 Gene delivery composition for therapeutic treatments, comprises polypeptide that binds to fibroblast growth factor receptor-nucleic acid
 Baird JA,
 29-AUG-1994;
13-SEP-1994;
 15-MAR-1994;
15-MAR-1994;
 24-NOV-1999;
 07-JAN-2003.
 US6503886-B1.
 Homo sapiens
 Gene
 Claim 14; SEQ ID NO 14; 130pp; English.
 18-DEC-2003
 16-MAY-1995
 (SELE-)
 241
 delivery;
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 2003-361554/34
 SELECTIVE GENETICS INC
 standard; protein;
 SPIKSKIPLSAPRKNINSVKYRLKFRFG 268
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP 240
 Chandler LA,
 (first entry)
 94US-00297961.
94US-00305771.
95US-00441979.
 fibroblast growth factor; FGF; FGF receptor;
 94US-00213447.
 94US-00213446.
 99US-00449249.
 96US-00718904
 Soenowski
 gene therapy;
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24-SEP-1996;
24-NOV-1999;
 cytostatic; ophthalmological; gene therapy; human; receptor-binding internalised ligand; nucleic acid binding domain; cytocide-encoding agent; cell surface receptor; cell proliferation; cancer; smooth muscle cell hyperplasia; fibroblast growth factor; FGF
 delivers higher amounts of nucleic acids to targeted cells. The sequence presented is the human FGF-5 protein.
 New pharmaceutical composition comprising receptor-binding internalized ligand-nucleic acid binding domain-cytocide-encoding agent, useful for preventing excessive cell proliferation in the eye or for treating e.g.
 Baird
 Disclosure;
 15-MAR-1994;
15-MAR-1994;
 31-JUL-2003
 US2003143217-A1
 22-APR-2004
 ADH92004 standard;
 02-JUL-2002;
 (SELE-) SELECTIVE
 2003-787221/74.
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 Similarity
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSSAMSSSSAS
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 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 SPIKSKIPLSAPRKNINSVKYRLKFRFG
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
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 CC The invention describes a pharmaceutical composition comprising receptor-
CC binding internalised ligand-nucleic acid binding domain-cytocide-encoding
CC agent. The receptor-binding internalised ligand is a polypeptide reactive
CC with a cell surface receptor. The nucleic acid binding domain binds to a
nucleic acid and is chemically conjugated or fused to the receptor-
CC binding internalised ligand. The cytocide-encoding agent is a nucleic
CC acid molecule encoding a cytocide and is bound to the nucleic acid
CC binding domain. The receptor-binding internalised ligand-nucleic acid
CC binding domain-cytocide-encoding agent binds to the cell surface receptor
CC and internalises the cytocide-encoding agent in cells bearing the
CC receptor. The pharmaceutical composition is useful for preventing
CC excessive cell proliferation in the eye or for treating cancer or smooth
CC muscle cell hyperplasia. This is the amino acid sequence of a fibroblast
CC growth factor (FGF) that can be modified and used as a receptor binding
CC ligand of the invention.
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 Query Match
Best Local Similarity
Matches 268; Conserv
 immunogenic peptide; fibroblast growth factor-5; FGF-5; renal cell carcinoma-associated antigen; immune response; antibody; antigen, human laukocyte antigen-A2; HLA-A2; renal cell carcinoma; adenocarcinoma.
 Sequence
 Fibroblast growth
 18-NOV-2004 (first entry)
 19-NOV-2002; 2002US-0427920P
 19-NOV-2003; 2003WO-US037065.
 03-JUN-2004.
 WO2004045555-A2
 ADS20334;
 ADS20334 standard;
 (USSH) US DEPT HEALTH & HUMAN SERVICES
 sapiens.
 241
 181
 181
 121
 121
 241
 61
 61
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 268 AA;
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANWLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG
 LEIPAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 100.0%;
ilarity 100.0%;
Conservative (
 protein;
 0
 Score 268; DB 7; 1
Pred. No. 8.6e-250;
); Mismatches 0;
 ₿
 Length 268;
 Indels
 0
 Gaps
 180
 240
 180
 120
 120
 60
 240
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Perry-Lalley D;

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RESULT 14
AAE00639
ID AAE00
XX AAE00
XX AAE00
XX O2-JU
XX Human
XX Human
XX Human
XX Human
XX Human
XX Horost
XX AOU
EM AOU
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 Query Match
Best Local Similarity
Matches 268; Conserv
 This sequence represents fibroblast growth factor-5 (FGF-5). FGF-5 is a renal cell carcinoma-associated antigen. Peptide fragments derived from FGF-5 were used to elicit an immune response in a subject, by administering to a subject a first dose of a therapeutic amount of the peptide. They may also be used for treating a FGF-5 expressing tumour in a subject and for generating antibodies specific for an FGF-5 antigen. In eliciting an immune response in a subject, the immune response elicited is against an FGF-5 human leukocyte antigen (HLA)-A2 epitope, and the peptide comprising ADS20325 is administered resulting in elicitation of the immune response against the FGF-5 HLA-A2 epitope. The method elicits an immune response against the renal cell carcinoma. The subject has an FGF-5 expressing tumour, particularly an adenocarcinoma or renal cell
 New human leukocyte antigen (HLA)-A3 and HLA-A2 epitopes of fibroblast growth factor-5 (FGF-5) for eliciting an immune response in a subject for treating an FGF-5 expressing tumor, e.g. renal cell carcinoma.
 WPI; 2004-431803/40.
N-PSDB; ADS20333.
 Human fibroblast growth factor-5 (FGF-5) peptide #1 from clone
 Sequence 268 AA;
 renal cell carcinoma; immunomodulator; gene therapy; carcinoma; prostate; bladder; pancreas; TAA; tumour associated antigen; horseshoe kidney; Hippel-Lindau disease; acquired renal cystic adult polycystic kidney disease; clone 6A4-1.
 Example 1; SEQ ID NO 16; 89pp; English
 02-JUL-2001
 AAE00639 standard; peptide; 246 AA
 12-APR-2001
 Homo sapiens
 241
 241
 181
 181
 121
 121
 61
 61
 μ
 fibroblast growth factor-5; FGF-5; neoplasm; cytostatic;
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 SPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 LE I FAVSQGI VGI RGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASA I HR
 AAB06463.
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 SSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 LEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHR
 SSPAASLGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSV
 MSLSFLLLLFFSHLILSAWAHGEKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSAS
 TEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPP
 Conservative
 (first entry)
 100.0%; Score 268; DB 8; 100.0%; Pred. No. 8.6e-250;
 0;
 Mismatches
 Length 268;
 Indels
 cystic disease
 0;
 subject or
 6A4-1.
 breast;
```

240 180

RESULT 15
AAY31793
ID AAY31
XX
AC AAY31
XX
DT 06-DE
XX
DE Human

AAY31793 standard;

protein;

262 180 120 142 60

Human fibroblast growth factor 5 mature polypeptide.

(first entry)

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Matches
 Query Match
 WPI; 200
N-PSDB;
 treating or preventing a neoplasm such as prostate carcinoma, breast carcinoma, bladder carcinoma, pancreas carcinoma, and renal cell carcinoma (RCC) and diseases such as Hippel-Lindau disease, horseshoe kidneys, adult polycystic kidney disease and acquired renal cystic disease. RGF-5 polypeptides may be used as immunogen in the production of antibodies, which are useful in quantitative immunoassays that determine concentrations of antigen-bearing substances in biological samples, and to (semi-)quantitatively identify the presence of antigen in a biological sample. The antibodies may also be used to treat FGF-5 expressing or overexpressing tumours by decreasing FGF-5 activity, as diagnostic agents to monitor the progression or regression of an FGF-5 expressing or overexpressing tumour in a patient undergoing therapy for the treatment of neoplasm. FGF-5 cDNA is also useful in gene therapy. The present sequence is a human FGF-5 peptide from clone 6A4-1
 The present invention relates to a method for treating a subject having neoplasm expressing fibroblast growth factor-5 (FGF-5) comprises modulating an immune response to FGF-5 or FGF-5 expression or activity. FGF is a tumour associated antigen (TAA). The method is useful for
 Claim 7;
 expression or activity.
 Treating a subject having a neoplasm expressing fibroblast growth factor-5 (FGF-5), e.g. prostate, breast, bladder, or pancreas carcinoma, comprises modulating an immune response to FGF-5 or modulating FGF-5
 Sequence
 29-SEP-2000; 2000WO-US026689
 Local
 2001-290607/30.
DB; AAD03937.
 181
 203
 121
 143
 246;
 61
 83
 23 EKRLAPKGOPGPAATDRNPIGSSSROSSSSAMSSSSAASSSPAASLGSOGSGLEOSSFOWS
 Similarity
 LKFRFG
 246 AA;
 Page 92; 101pp; English.
LKFRFG
 SPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYR
 SPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYR
 AMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGC
 AMSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGC
 PSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFL
 PSGRRTGSLYCRVGIGFHLQIYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFL
 EKRLAPKGQPGPAATDRNPIGSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWS
 DEPT HEALTH & HUMAN
 Conservative
 99US-0157103P
 268
 91.8%; Score 246; DB 4; L
100.0%; Pred. No. 1.4e-228;
 0
 SERVICES
 Mismatches
 Length 246;
 Indels
 0;
 Gaps
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60 60

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Query Match
Best Local Simi
Matches 226;
 or (b) supportive cells selected from Muller cells and pigment epithelial cells. The method is used to treat photoreceptor cell injury or death caused by an ocular disease, retinal injury, light or environmental trauma. The ocular disease is especially selected from: retinitis pigmentoss; macular degeneration, including age-related; retinal detachment; retinal tears; retinopathy; retinal degenerative diseases; macular holes; degenerative myopia; acute retinal necrosis syndrome; traumatic chorioretinopathies or contusion, such as Purtscher's retinopathy; oedema; ischemic conditions such as central or branch retinal vision occlusion; collagen vascular diseases; thrombocytompenic purpura; uveitis; retinal vasculitis and occlusion associated with Eales disease and systemic lupus erythematosus (all claimed)
 Pibroblast growth factor 5; PGP-5; human; eye; retina; ocular disease; retinopathy; maculopathy; retinal degeneration; retinitis pigmentosa; macular degeneration; retinal detachment; retinal tear; macular hole; degenerative myopla; acute retinal necrosis syndrome; traumatic chorioretinopathy; Purtscher's retinalpathy; oedema; retinal vision occlusion; collagen vascular disease; thrombocytompenic purpura; uveitis; retinal vasculitis; therapy.
 Sequence 247 AA;
 This sequence represents human fibroblast growth factor 5 (FGF-5) mature polypeptide. A claimed method of delaying, preventing or rescuing retinal cells from injury or death without causing angiogenesis or mitogenesis comprises administering an active FGF-5 polypeptide such as the present polypeptide. The retinal cells are: (a) retinal neurons selected from photoreceptors, retinal ganglion cells, displaced retinal ganglion cells, amacrine cells, displaced amacrine cells, horizontal and bipolar neurons;
 12-MAR-1998;
29-JAN-1999;
 Homo sapiens.
 Claim 3; Fig 10; 52pp; English.
 treating ocular diseases.
 Novel method using FGF-5 for preventing retinal neuron death and for
 WPI; 1999-561619/47.
 Kljavin IJ, La Fleur M;
 10-MAR-1999;
 16-SEP-1999
 WO9945952-A2
 (GETH) GENENTECH INC.
202
 223
 142
 163
 103
 82
 22
 43
 Similarity
 GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSPQWSPSGRRTGSLYCRVGIGFHLQ
 RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
 IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
 GSSSRQSSSSAMSSSSASSSPAASLGSQGSGLEQSSFQWSPSGRRTGSLYCRVGIGFHLQ
 EQPELSFTVTVPEKKNPPSPIKSKIPLSAPRKNTNSVKYRLKFRFG 268
 RERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQS
 IYPDGKVNGSHEANMLSVLEIFAVSQGIVGIRGVFSNKFLAMSKKGKLHASAKFTDDCKF
 ilarity 100.0%;
Conservative
 98US-00041383.
99US-00240952.
 99WO-US005375.
 84.3%; Score 226; DB 2; L
100.0%; Pred. No. 2.7e-209;
 0;
 Mismatches
 0
 Length 247;
 Indels
 <u>.</u>
 Gaps
 222
 162
 141
 81
 102
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